

Table 69. Frequency Distribution of the Number of Consecutive Hourly 19- and 150-foot Wind Speeds (mph) above Indicated Values. September-October 1950-1964

19-FOOT LEVEL 1950-1964																							
SEPTEMBER											OCTOBER												
NUMBER OF HOURS	WIND SPEED (MPH)										NUMBER OF HOURS	WIND SPEED (MPH)											
	CALM	3	5	10	15	20	25	30	35	40		MISSING	CALM	3	5	10	15	20	25	30	35	40	MISSING
1	35	204	258	158	58	16	0	0	0	0	0	28	194	231	201	76	14	0	0	0	0	0	4
2	18	100	136	51	18	0	0	0	0	0	0	13	85	93	82	17	3	0	0	0	0	0	3
3	3	47	78	26	7	3	0	0	0	0	0	3	9	53	47	49	8	1	0	0	0	0	0
4	8	33	51	22	4	0	0	0	0	0	0	4	7	29	41	33	9	0	0	0	0	0	0
5	1	34	41	22	2	1	0	0	0	0	0	5	1	20	34	21	10	0	0	0	0	0	0
6	1	38	39	15	3	0	0	0	0	0	0	6	8	20	34	20	4	0	0	0	0	0	0
7	2	20	35	23	3	0	0	0	0	0	0	7	5	15	31	23	5	0	0	0	0	0	0
8	1	28	23	22	1	0	0	0	0	0	0	8	5	20	33	18	1	0	0	0	0	0	0
9	1	32	30	9	1	0	0	0	0	0	0	9	5	25	25	19	3	0	0	0	0	0	0
10	3	14	23	9	0	0	0	0	0	0	0	10	2	16	21	12	1	0	0	0	0	0	0
11	5	23	30	1	3	0	0	0	0	0	0	11	1	12	17	8	1	0	0	0	0	0	0
12	3	16	18	2	0	0	0	0	0	0	0	12	4	12	14	4	2	0	0	0	0	0	0
13	3	17	12	4	0	0	0	0	0	0	0	13	1	10	14	8	0	0	0	0	0	0	0
14	1	14	13	3	0	0	0	0	0	0	0	14	1	7	8	5	1	0	0	0	0	0	0
15	7	13	12	2	0	0	0	0	0	0	0	15	1	7	5	4	0	0	0	0	0	0	0
16	2	8	10	0	0	0	0	0	0	0	0	16	1	6	10	2	0	0	0	0	0	0	0
17	2	5	13	1	0	0	0	0	0	0	0	17	1	10	7	3	0	0	0	0	0	0	0
18	6	14	9	3	0	0	0	0	0	0	0	18	3	5	6	2	0	0	0	0	0	0	0
19	4	12	8	0	0	0	0	0	0	0	0	19	1	4	8	0	0	0	0	0	0	0	0
20-24	17	42	23	3	0	0	0	0	0	0	0	20-24	6	38	37	3	1	0	0	0	0	0	0
25-29	7	10	8	1	0	0	0	0	0	0	0	25-29	4	13	18	1	0	0	0	0	0	0	1
30-34	4	15	5	2	0	0	0	0	0	0	0	30-34	3	11	15	3	0	0	0	0	0	0	0
35-39	7	11	7	0	0	0	0	0	0	0	0	35-39	3	15	7	1	0	0	0	0	0	0	0
40-44	6	11	5	0	0	0	0	0	0	0	0	40-44	5	12	3	1	0	0	0	0	0	0	0
45-49	7	16	2	0	0	0	0	0	0	0	0	45-49	6	10	6	0	0	0	0	0	0	0	0
50-59	11	10	4	0	0	0	0	0	0	0	0	50-59	8	19	7	0	0	0	0	0	0	0	0
60-69	15	6	0	0	0	0	0	0	0	0	0	60-69	6	12	4	0	0	0	0	0	0	0	0
70-79	11	2	0	0	0	0	0	0	0	0	0	70-79	2	7	2	0	0	0	0	0	0	0	0
80-89	7	1	0	0	0	0	0	0	0	0	0	80-89	5	2	1	0	0	0	0	0	0	0	0
90-99	6	1	0	0	0	0	0	0	0	0	0	90-99	2	3	1	0	0	0	0	0	0	0	0
100-119	4	0	0	0	0	0	0	0	0	0	0	100-119	9	1	1	0	0	0	0	0	0	0	0
120-139	1	0	0	0	0	0	0	0	0	0	0	120-139	6	3	0	0	0	0	0	0	0	0	0
140-159	5	0	0	0	0	0	0	0	0	0	0	140-159	7	1	0	0	0	0	0	0	0	0	0
160-179	7	0	0	0	0	0	0	0	0	0	0	160-179	3	1	0	0	0	0	0	0	0	0	0
180-199	3	0	0	0	0	0	0	0	0	0	0	180-199	2	0	0	0	0	0	0	0	0	0	0
200-249	3	0	0	0	0	0	0	0	0	0	0	200-249	4	0	0	0	0	0	0	0	0	0	0
250-299	0	0	0	0	0	0	0	0	0	0	0	250-299	4	0	0	0	0	0	0	0	0	0	0
300-349	1	0	0	0	0	0	0	0	0	0	0	300-349	5	0	0	0	0	0	0	0	0	0	0
350-399	0	0	0	0	0	0	0	0	0	0	0	350-399	0	0	0	0	0	0	0	0	0	0	0
≥400	0	0	0	0	0	0	0	0	0	0	0	≥400	4	0	0	0	0	0	0	0	0	0	0
MAXIMUM PERSIST	311	93	57	34	11	5	0	0	0	0	13	MAXIMUM PERSIST	582	170	104	40	21	3	0	0	0	0	26

150-FOOT LEVEL 1950-1964																							
SEPTEMBER											OCTOBER												
NUMBER OF HOURS	WIND SPEED (MPH)										NUMBER OF HOURS	WIND SPEED (MPH)											
	CALM	3	5	10	15	20	25	30	35	40		MISSING	CALM	3	5	10	15	20	25	30	35	40	MISSING
1	2	44	80	340	220	82	20	12	1	0	0	1	3	36	64	285	238	112	39	6	2	0	3
2	0	26	40	134	79	20	15	1	0	0	0	2	3	13	34	115	103	42	12	2	0	0	3
3	0	6	22	96	46	16	5	0	0	0	0	3	0	12	14	65	66	13	4	0	0	0	0
4	0	5	22	66	30	10	2	1	0	0	0	4	1	5	11	41	41	12	5	0	0	0	1
5	1	5	16	48	17	6	1	1	0	0	0	5	3	5	18	45	23	9	3	0	0	0	1
6	1	3	15	38	23	7	0	0	0	0	0	6	0	5	8	28	18	6	0	0	0	0	1
7	0	6	10	38	13	3	0	0	0	0	0	7	1	5	4	22	20	7	0	0	0	0	0
8	0	5	11	24	10	3	1	0	0	0	0	8	0	3	9	26	24	3	0	0	0	0	0
9	0	3	6	19	4	1	0	0	0	0	0	9	3	1	5	16	11	6	0	0	0	0	0
10	0	0	7	21	10	0	0	0	0	0	0	10	0	2	7	9	8	2	1	0	0	0	0
11	0	1	5	12	2	1	1	0	0	0	0	11	0	1	2	13	14	1	0	0	0	0	0
12	0	2	11	14	3	0	0	0	0	0	0	12	0	0	8	7	7	2	0	0	0	0	0
13	1	1	9	5	1	2	0	0	0	0	0	13	0	4	2	16	6	0	0	0	0	0	0
14	0	2	5	9	3	0	0	0	0	0	0	14	1	4	2	12	5	2	0	0	0	0	0
15	1	6	13	11	6	1	0	0	0	0	0	15	0	2	4	9	6	0	0	0	0	0	0
16	0	4	7	8	0	0	0	0	0	0	0	16	0	1	7	12	6	0	0	0	0	0	0
17	0	0	2	9	1	0	0	0	0	0	0	17	1	3	5	8	3	0	0	0	0	0	0
18	0	3	1	7	1	0	0	0	0	0	0	18	0	2	5	4	2	0	0	0	0	0	0
19	0	0	4	6	1	0	0	0	0	0	0	19	0	3	7	4	5	0	0	0	0	0	0
20-24	0	12	26	17	3	0	0	0	0	0	0	20-24	0	6	15	28	7	1	0	0	0	0	1
25-29	1	7	21	19	4	0	0	0	0	0	0	25-29	0	6	13	18	7	0	0	0	0	0	0
30-34	2	9	11	11	2	0	0	0	0	0	0	30-34	1	3	6	17	1	0	0	0	0	0	0
35-39	0	3	8	7	2	0	0	0	0	0	0	35-39	0	7	10	11	1	0	0	0	0	0	0
40-44	1	8	11	7	0	0	0	0	0	0	0	40-44	1	8	11	11	1	0	0	0	0	0	0
45-49	4	4	8	4	0	0	0	0	0	0	0	45-49	1	5	7	7	0	0	0	0	0	0	0
50-59	0	11	16	3	0	0	0	0	0	0	0	50-59	3	7	12	6	0	0	0	0	0	0	0
60-69	2	10	14	0	0	0	0	0	0	0	0	60-69	0	6	10	9	0	0	0	0	0	0	0
70-79	0	9	14	0	0	0	0	0	0	0	0	70-79	3	7	6	3	0	0	0	0	0	0	0
80-89	1	7	12	0	0	0	0	0	0	0	0	80-89	0	4	6	0	0	0	0	0	0	0	0
90-99	1	6	9	0	0	0	0	0	0	0	0	90-99	1	5	6	0	0	0	0	0	0	0	0
100-119	1	11	3	0	0	0	0	0	0	0	0	100-119	2	6	12	0	0	0	0	0	0	0	0
120-139	1	9	3	0	0	0	0	0	0	0	0	120-139	1	9	6	0	0	0	0	0	0	0	0
140-159	1	7	2	0	0																		



Table 71. Frequency Distribution of the Number of Consecutive Hourly 19- and 150-foot Wind Speeds (mph) above Indicated Values. January 1950-December 1964

19 FOOT LEVEL 1950-1964													150-FOOT LEVEL 1950-1964										
NUMBER OF HOURS	WIND SPEED (MPH)											NUMBER OF HOURS	WIND SPEED (MPH)										
	CALM	3	5	10	15	20	25	30	35	40	MISSING		CALM	3	5	10	15	20	25	30	35	40	MISSING
1	271	1974	2851	2337	1147	327	58	10	0	0	18	1	44	398	897	3386	2889	1409	572	208	68	15	19
2	132	864	1214	895	386	101	20	1	0	0	12	2	24	206	438	1474	1091	486	178	64	25	7	9
3	79	526	711	525	200	48	5	0	0	0	3	3	12	127	282	873	599	240	104	30	10	3	8
4	48	365	483	390	121	23	4	0	0	0	3	4	13	88	214	594	400	183	56	17	6	2	5
5	38	283	376	286	106	24	5	0	0	0	1	5	13	78	182	421	280	137	50	12	2	0	6
6	26	258	315	238	87	13	4	0	0	0	1	6	9	56	157	360	220	104	42	7	2	0	5
7	22	189	281	231	69	10	2	0	0	0	0	7	7	47	118	293	182	75	23	4	2	0	0
8	31	190	264	192	51	6	3	0	0	0	1	8	2	56	110	229	177	65	23	4	0	0	1
9	26	181	268	198	52	5	1	0	0	0	2	9	9	53	92	213	131	48	10	3	0	0	1
10	30	150	233	141	38	4	0	0	0	0	0	10	1	30	69	172	109	35	8	3	3	0	1
11	18	166	209	104	27	4	1	0	0	0	0	11	4	23	68	150	99	26	10	2	0	0	0
12	27	148	173	89	19	1	0	0	0	0	1	12	5	34	83	119	91	31	7	1	0	0	0
13	21	134	157	63	10	1	0	0	0	0	2	13	5	33	76	97	67	17	4	5	1	0	0
14	24	127	122	68	7	5	0	0	0	0	0	14	3	41	67	100	40	24	2	1	0	0	1
15	31	91	119	66	13	2	0	0	0	0	0	15	9	32	61	83	57	21	4	0	0	0	0
16	22	79	113	44	9	1	0	0	0	0	0	16	5	21	62	75	58	14	3	1	0	0	0
17	22	82	96	29	4	2	0	0	0	0	0	17	6	27	55	75	51	9	3	0	0	0	0
18	29	86	79	38	7	1	0	0	0	0	1	18	3	27	53	78	34	5	4	1	0	0	1
19	22	90	108	28	5	0	0	0	0	0	0	19	5	28	57	71	36	7	3	0	0	0	0
20-24	124	364	359	96	24	2	0	0	0	0	1	20-24	22	122	209	286	100	27	5	0	0	0	4
25-29	56	160	154	63	9	0	0	0	0	0	3	25-29	10	88	177	191	85	17	1	0	0	0	3
30-34	39	151	134	65	8	0	0	0	0	0	0	30-34	18	77	145	171	56	3	1	0	0	0	1
35-39	44	169	129	26	2	0	0	0	0	0	1	35-39	13	81	127	128	29	5	0	0	0	0	0
40-44	54	149	107	17	0	0	0	0	0	0	2	40-44	8	83	121	104	21	3	0	0	0	0	1
45-49	69	119	70	7	1	0	0	0	0	0	0	45-49	16	61	102	64	8	1	0	0	0	0	2
50-59	72	140	74	10	0	0	0	0	0	0	0	50-59	24	121	153	82	14	0	0	0	0	0	1
60-69	73	111	75	3	0	0	0	0	0	0	1	60-69	24	101	135	57	6	0	0	0	0	0	0
70-79	63	65	36	0	0	0	0	0	0	0	0	70-79	27	89	109	34	1	0	0	0	0	0	1
80-89	44	65	26	1	0	0	0	0	0	0	0	80-89	16	73	82	11	0	0	0	0	0	0	1
90-99	46	55	19	0	0	0	0	0	0	0	0	90-99	25	67	80	14	0	0	0	0	0	0	0
100-119	64	49	10	0	0	0	0	0	0	0	0	100-119	30	100	84	6	0	0	0	0	0	0	1
120-139	52	26	4	0	0	0	0	0	0	0	0	120-139	22	71	66	1	0	0	0	0	0	0	0
140-159	46	10	2	0	0	0	0	0	0	0	0	140-159	25	49	38	2	0	0	0	0	0	0	0
160-179	46	7	0	0	0	0	0	0	0	0	0	160-179	22	47	18	0	0	0	0	0	0	0	0
180-199	22	2	0	0	0	0	0	0	0	0	0	180-199	18	28	16	0	0	0	0	0	0	0	0
200-249	59	4	0	0	0	0	0	0	0	0	0	200-249	31	48	13	0	0	0	0	0	0	0	0
250-299	30	3	0	0	0	0	0	0	0	0	0	250-299	30	17	1	0	0	0	0	0	0	0	0
300-349	25	0	0	0	0	0	0	0	0	0	0	300-349	22	14	1	0	0	0	0	0	0	0	0
350-399	16	0	0	0	0	0	0	0	0	0	0	350-399	15	6	2	0	0	0	0	0	0	0	0
≥400	37	0	0	0	0	0	0	0	0	0	0	≥400	96	13	1	0	0	0	0	0	0	0	0
MAXIMUM PERSIST	1153	265	156	80	45	22	11	2	0	0	61	MAXIMUM PERSIST	4564	573	403	159	79	46	34	18	13	4	105

Table 72. Frequency Distribution of the Number of Consecutive Hourly 19-foot Wind Speeds (mph) above Indicated Values When the Wind Direction Is between 6 and 95 degrees. 19-foot Level

19-FOOT LEVEL JANUARY 1950-1964												19-FOOT LEVEL FEBRUARY 1950-1964											
NUMBER OF HOURS	WIND SPEED (MPH)										MISSING	NUMBER OF HOURS	WIND SPEED (MPH)										MISSING
	CALM	3	5	10	15	20	25	30	35	40			CALM	3	5	10	15	20	25	30	35	40	
1	114	107	76	37	18	9	0	0	0	0	0	1	87	79	84	48	26	10	0	0	0	0	0
2	37	31	36	19	4	2	0	0	0	0	0	0	2	48	41	38	17	7	3	0	0	0	0
3	26	20	16	9	4	1	0	0	0	0	0	0	3	27	21	19	11	2	1	0	0	0	0
4	11	9	10	3	1	1	0	0	0	0	0	0	4	24	20	12	2	1	0	0	0	0	0
5	10	11	8	1	3	0	0	0	0	0	0	0	5	13	7	9	6	3	1	0	0	0	0
6	8	7	6	3	2	0	0	0	0	0	0	0	6	5	6	6	3	3	0	0	0	0	0
7	12	8	3	1	1	0	0	0	0	0	0	0	7	11	10	3	1	0	0	0	0	0	0
8	1	2	2	3	1	0	0	0	0	0	0	0	8	5	5	2	5	2	0	0	0	0	0
9	8	5	4	4	1	0	0	0	0	0	0	0	9	2	3	5	4	1	0	0	0	0	0
10	5	3	4	1	1	0	0	0	0	0	0	0	10	3	5	3	2	0	0	0	0	0	1
11	6	4	3	1	0	0	0	0	0	0	0	0	11	6	6	8	1	1	0	0	0	0	0
12	2	1	1	0	0	0	0	0	0	0	0	0	12	1	2	2	1	0	0	0	0	0	0
13	3	2	0	0	0	0	0	0	0	0	0	0	13	3	3	3	2	1	0	0	0	0	0
14	0	0	1	0	0	0	0	0	0	0	0	0	14	4	2	1	2	0	0	0	0	0	0
15	2	3	0	4	0	0	0	0	0	0	0	0	15	3	4	3	1	1	0	0	0	0	0
16	1	2	2	2	0	0	0	0	0	0	0	0	16	1	3	1	2	0	0	0	0	0	0
17	1	0	0	0	0	0	0	0	0	0	0	0	17	6	3	1	2	1	0	0	0	0	0
18	5	5	5	0	0	0	0	0	0	0	0	0	18	1	1	1	0	0	0	0	0	0	0
19	1	2	0	1	0	0	0	0	0	0	0	0	19	1	0	0	1	2	0	0	0	0	0
20-24	6	7	7	1	1	0	0	0	0	0	0	0	20-24	12	13	12	2	0	0	0	0	0	0
25-29	3	2	1	1	0	0	0	0	0	0	0	0	25-29	8	6	6	2	1	0	0	0	0	0
30-34	3	1	2	0	1	0	0	0	0	0	0	0	30-34	3	2	2	4	0	0	0	0	0	0
35-39	3	3	2	0	0	0	0	0	0	0	0	0	35-39	4	3	3	2	0	0	0	0	0	0
40-44	2	2	2	1	0	0	0	0	0	0	0	0	40-44	2	2	1	0	0	0	0	0	0	0
45-49	1	1	1	1	0	0	0	0	0	0	0	0	45-49	2	3	3	0	0	0	0	0	0	0
50-59	1	1	1	0	0	0	0	0	0	0	0	0	50-59	2	3	1	0	0	0	0	0	0	0
60-69	0	0	0	0	0	0	0	0	0	0	0	0	60-69	1	0	0	0	0	0	0	0	0	0
70-79	1	0	0	0	0	0	0	0	0	0	0	0	70-79	0	0	0	0	0	0	0	0	0	0
80-89	0	0	0	0	0	0	0	0	0	0	0	0	80-89	0	0	0	0	0	0	0	0	0	0
90-99	0	0	0	0	0	0	0	0	0	0	0	0	90-99	0	0	0	0	0	0	0	0	0	0
≥100	0	0	0	0	0	0	0	0	0	0	0	0	≥100	0	0	0	0	0	0	0	0	0	0
MAXIMUM PERSIST	72	58	55	48	33	4	0	0	0	0	0	0	MAXIMUM PERSIST	67	59	55	39	27	11	3	0	0	10

19-FOOT LEVEL MARCH 1950-1964												19-FOOT LEVEL APRIL 1950-1964											
NUMBER OF HOURS	WIND SPEED (MPH)										MISSING	NUMBER OF HOURS	WIND SPEED (MPH)										MISSING
	CALM	3	5	10	15	20	25	30	35	40			CALM	3	5	10	15	20	25	30	35	40	
1	123	120	119	84	53	13	3	0	0	0	0	1	123	115	121	110	90	13	1	0	0	0	0
2	60	54	54	30	13	5	1	0	0	0	0	0	2	53	38	51	46	21	5	0	0	0	0
3	40	32	39	22	7	4	0	0	0	0	0	0	3	38	38	25	20	7	1	0	0	0	0
4	16	19	17	13	3	2	0	0	0	0	0	0	4	26	25	26	9	3	0	0	0	0	0
5	16	14	11	13	4	0	0	0	0	0	0	0	5	17	16	20	10	3	0	0	0	0	0
6	8	10	14	8	5	2	0	0	0	0	0	0	6	7	11	11	10	4	0	0	0	0	0
7	9	11	10	7	2	1	0	0	0	0	0	0	7	7	6	12	4	1	0	0	0	0	0
8	11	8	5	3	1	1	0	0	0	0	0	0	8	12	7	8	4	0	0	0	0	0	0
9	9	7	7	5	3	0	0	0	0	0	0	0	9	11	15	13	3	1	0	0	0	0	0
10	5	4	2	2	2	0	0	0	0	0	0	0	10	11	9	3	4	3	0	0	0	0	0
11	6	7	7	4	1	0	0	0	0	0	0	0	11	9	6	7	9	1	0	0	0	0	0
12	3	3	5	5	0	0	0	0	0	0	0	0	12	6	5	8	0	0	0	0	0	0	0
13	5	4	7	5	0	0	0	0	0	0	0	0	13	5	4	10	1	0	0	0	0	0	0
14	2	2	5	0	0	0	0	0	0	0	0	0	14	5	8	2	3	0	0	0	0	0	0
15	4	7	2	3	0	0	0	0	0	0	0	0	15	8	5	3	0	2	0	0	0	0	0
16	3	4	2	0	1	0	0	0	0	0	0	0	16	1	3	2	1	0	0	0	0	0	0
17	7	6	2	2	0	0	0	0	0	0	0	0	17	3	3	2	2	0	0	0	0	0	0
18	2	3	3	2	0	0	0	0	0	0	0	0	18	3	3	1	0	0	0	0	0	0	0
19	3	3	3	1	0	0	0	0	0	0	0	0	19	5	2	0	1	0	0	0	0	0	0
20-24	17	14	11	3	3	0	0	0	0	0	0	0	20-24	6	9	6	4	2	0	0	0	0	0
25-29	9	9	6	3	2	0	0	0	0	0	0	0	25-29	9	5	6	4	0	0	0	0	0	0
30-34	5	5	4	4	0	0	0	0	0	0	0	0	30-34	9	7	7	1	0	0	0	0	0	0
35-39	3	4	6	1	0	0	0	0	0	0	0	0	35-39	2	2	2	0	0	0	0	0	0	0
40-44	5	3	1	0	0	0	0	0	0	0	0	0	40-44	3	4	3	1	0	0	0	0	0	0
45-49	1	2	4	1	0	0	0	0	0	0	0	0	45-49	1	1	1	0	0	0	0	0	0	0
50-59	5	3	2	1	0	0	0	0	0	0	0	0	50-59	7	6	3	0	0	0	0	0	0	0
60-69	0	0	1	0	0	0	0	0	0	0	0	0	60-69	0	0	0	0	0	0	0	0	0	0
70-79	1	1	1	0	0	0	0	0	0	0	0	0	70-79	0	0	0	0	0	0	0	0	0	0
80-89	0	0	0	0	0	0	0	0	0	0	0	0	80-89	0	0	0	0	0	0	0	0	0	0
90-99	1	1	1	0	0	0	0	0	0	0	0	0	90-99	0	0	0	0	0	0	0	0	0	0
≥100	2	2	0	0	0	0	0	0	0	0	0	0	≥100	0	0	0	0	0	0	0	0	0	0
MAXIMUM PERSIST	117	117	99	50	28	8	2	0	0	0	0	0	MAXIMUM PERSIST	58	58	58	41	22	3	1	0	0	0

Table 73. Frequency Distribution of the Number of Consecutive Hourly 19-foot Wind Speeds (mph) above Indicated Values When the Wind Direction Is between 6 and 95 degrees. 19-foot Level

19-FOOT LEVEL MAY 1950-1964												19-FOOT LEVEL JUNE 1950-1964											
NUMBER OF HOURS	WIND SPEED (MPH)											NUMBER OF HOURS	WIND SPEED (MPH)										
	CALM	3	5	10	15	20	25	30	35	40	MISSING		CALM	3	5	10	15	20	25	30	35	40	MISSING
1	146	144	163	105	31	5	0	0	0	0	0	1	174	142	144	57	15	0	0	0	0	0	0
2	59	55	64	38	9	2	0	0	0	0	0	0	72	64	52	21	1	0	0	0	0	0	2
3	36	41	32	18	6	1	0	0	0	0	0	0	39	34	28	18	2	0	0	0	0	0	0
4	20	20	24	19	1	0	0	0	0	0	0	0	23	20	23	5	0	0	0	0	0	0	0
5	24	22	12	7	4	0	0	0	0	0	0	0	20	19	25	5	0	0	0	0	0	0	0
6	16	15	15	6	1	0	0	0	0	0	0	0	17	16	12	5	1	0	0	0	0	0	0
7	10	9	13	6	4	0	0	0	0	0	0	0	11	10	6	3	0	0	0	0	0	0	0
8	9	7	8	5	2	0	0	0	0	0	0	0	10	7	8	0	1	0	0	0	0	0	0
9	10	15	9	2	0	0	0	0	0	0	0	0	9	7	6	4	0	0	0	0	0	0	0
10	7	7	9	2	1	0	0	0	0	0	0	0	6	5	5	3	0	0	0	0	0	0	0
11	6	8	7	3	0	0	0	0	0	0	0	0	11	7	4	3	0	0	0	0	0	0	0
12	8	9	5	3	0	0	0	0	0	0	0	0	12	7	6	9	0	0	0	0	0	0	0
13	8	6	7	3	0	0	0	0	0	0	0	0	13	3	4	4	0	1	0	0	0	0	0
14	8	7	5	2	0	0	0	0	0	0	0	0	14	7	8	7	0	0	0	0	0	0	0
15	0	3	3	1	0	0	0	0	0	0	0	0	15	5	5	3	1	0	0	0	0	0	0
16	4	2	3	1	1	0	0	0	0	0	0	0	16	3	2	3	0	0	0	0	0	0	0
17	5	2	1	1	0	0	0	0	0	0	0	0	17	3	3	3	0	0	0	0	0	0	0
18	5	8	9	1	0	0	0	0	0	0	0	0	18	4	6	2	0	0	0	0	0	0	0
19	9	6	4	1	0	0	0	0	0	0	0	0	19	5	4	3	0	0	0	0	0	0	0
20-24	10	11	8	3	0	0	0	0	0	0	0	0	20-24	14	10	8	2	0	0	0	0	0	0
25-29	10	8	7	3	0	0	0	0	0	0	0	0	25-29	8	5	3	0	0	0	0	0	0	0
30-34	6	3	6	1	0	0	0	0	0	0	0	0	30-34	2	1	1	0	0	0	0	0	0	0
35-39	6	7	2	0	0	0	0	0	0	0	0	0	35-39	2	3	0	0	0	0	0	0	0	0
40-44	2	2	1	0	0	0	0	0	0	0	0	0	40-44	2	3	0	0	0	0	0	0	0	0
45-49	2	2	1	0	0	0	0	0	0	0	0	0	45-49	2	2	1	0	0	0	0	0	0	0
50-59	4	4	1	0	0	0	0	0	0	0	0	0	50-59	3	1	0	0	0	0	0	0	0	0
60-69	3	1	1	0	0	0	0	0	0	0	0	0	60-69	0	0	0	0	0	0	0	0	0	0
70-79	1	0	0	0	0	0	0	0	0	0	0	0	70-79	1	0	0	0	0	0	0	0	0	0
80-89	0	0	1	0	0	0	0	0	0	0	0	0	80-89	0	0	0	0	0	0	0	0	0	0
90-99	1	1	0	0	0	0	0	0	0	0	0	0	90-99	0	0	0	0	0	0	0	0	0	0
≥100	0	0	0	0	0	0	0	0	0	0	0	0	≥100	0	0	0	0	0	0	0	0	0	0
MAXIMUM PERSIST	97	97	80	34	16	3	0	0	0	0	0	0	MAXIMUM PERSIST	71	50	48	23	13	0	0	0	0	2

19-FOOT LEVEL JULY 1950-1964												19-FOOT LEVEL AUGUST 1950-1964											
NUMBER OF HOURS	WIND SPEED (MPH)											NUMBER OF HOURS	WIND SPEED (MPH)										
	CALM	3	5	10	15	20	25	30	35	40	MISSING		CALM	3	5	10	15	20	25	30	35	40	MISSING
1	184	196	175	46	10	1	0	0	0	0	0	0	1	192	198	129	37	4	0	0	0	0	0
2	85	74	72	9	1	0	0	0	0	0	0	0	2	79	71	64	17	1	0	0	0	0	0
3	41	50	32	7	1	0	0	0	0	0	0	0	3	41	42	29	9	0	0	0	0	0	0
4	35	36	23	3	0	0	0	0	0	0	0	0	4	33	27	21	6	0	0	0	0	0	0
5	23	23	13	1	1	0	0	0	0	0	0	0	5	15	25	10	1	0	0	0	0	0	0
6	13	6	16	1	0	0	0	0	0	0	0	0	6	19	16	16	2	0	0	0	0	0	0
7	18	15	9	3	0	0	0	0	0	0	0	0	7	19	15	7	2	0	0	0	0	0	0
8	14	6	3	0	1	0	0	0	0	0	0	0	8	11	15	8	1	0	0	0	0	0	0
9	6	5	6	1	0	0	0	0	0	0	0	0	9	11	11	5	1	0	0	0	0	0	0
10	6	7	5	2	0	0	0	0	0	0	0	0	10	15	10	5	0	0	0	0	0	0	0
11	9	14	5	0	0	0	0	0	0	0	0	0	11	12	3	5	0	0	0	0	0	0	0
12	7	5	9	0	0	0	0	0	0	0	0	0	12	3	6	4	0	0	0	0	0	0	0
13	1	5	0	1	0	0	0	0	0	0	0	0	13	5	5	6	1	0	0	0	0	0	0
14	3	4	2	1	0	0	0	0	0	0	0	0	14	5	3	3	0	0	0	0	0	0	0
15	8	4	2	0	0	0	0	0	0	0	0	0	15	6	3	0	0	0	0	0	0	0	0
16	4	1	2	0	0	0	0	0	0	0	0	0	16	2	1	0	0	0	0	0	0	0	0
17	3	6	1	1	0	0	0	0	0	0	0	0	17	7	1	3	0	0	0	0	0	0	0
18	3	1	2	0	0	0	0	0	0	0	0	0	18	5	3	2	0	0	0	0	0	0	0
19	3	3	2	0	0	0	0	0	0	0	0	0	19	2	2	1	0	0	0	0	0	0	0
20-24	9	14	4	0	0	0	0	0	0	0	0	0	20-24	13	9	6	0	0	0	0	0	0	0
25-29	9	0	1	0	0	0	0	0	0	0	0	0	25-29	5	2	0	0	0	0	0	0	0	0
30-34	3	1	2	0	0	0	0	0	0	0	0	0	30-34	2	1	0	0	0	0	0	0	0	0
35-39	4	1	1	0	0	0	0	0	0	0	0	0	35-39	0	0	0	0	0	0	0	0	0	0
40-44	1	2	0	0	0	0	0	0	0	0	0	0	40-44	0	0	0	0	0	0	0	0	0	0
45-49	3	0	0	0	0	0	0	0	0	0	0	0	45-49	0	0	0	0	0	0	0	0	0	0
50-59	2	0	0	0	0	0	0	0	0	0	0	0	50-59	1	1	0	0	0	0	0	0	0	0
60-69	2	2	0	0	0	0	0	0	0	0	0	0	60-69	0	1	0	0	0	0	0	0	0	0
70-79	1	0	0	0	0	0	0	0	0	0	0	0	70-79	0	0	0	0	0	0	0	0	0	0
80-89	0	0	0	0	0	0	0	0	0	0	0	0	80-89	2	0	0	0	0	0	0	0	0	0
90-99	0	0	0	0	0	0	0	0	0	0	0	0	90-99	0	0	0	0	0	0	0	0	0	0
≥100	0	0	0	0	0	0	0	0	0	0	0	0	≥100	0	0	0	0	0	0	0	0	0	0
MAXIMUM PERSIST	71	69	39	17	8	1	0	0	0	0	0	0	MAXIMUM PERSIST	87	66	23	13	2	0	0	0	0	0

Table 74. Frequency Distribution of the Number of Consecutive Hourly 19-foot Wind Speeds (mph) above Indicated Values When the Wind Direction Is between 6 and 95 degrees. 19-foot Level

19-FOOT LEVEL SEPTEMBER 1950-1964												19-FOOT LEVEL OCTOBER 1950-1964											
NUMBER OF HOURS	WIND SPEED (MPH)										MISSING	NUMBER OF HOURS	WIND SPEED (MPH)										MISSING
	CALM	3	5	10	15	20	25	30	35	40			CALM	3	5	10	15	20	25	30	35	40	
1	157	161	118	51	6	1	0	0	0	0	0	108	117	111	31	15	3	0	0	0	0	0	
2	65	64	59	18	2	0	0	0	0	0	0	51	47	30	10	3	0	0	0	0	0	0	
3	41	37	28	10	1	0	0	0	0	0	0	29	31	16	5	0	0	0	0	0	0	0	
4	19	17	12	5	0	0	0	0	0	0	0	27	17	14	5	0	0	0	0	0	0	1	
5	17	17	9	1	0	0	0	0	0	0	0	12	7	8	2	1	0	0	0	0	0	0	
6	16	17	8	0	0	0	0	0	0	0	0	8	11	11	4	0	0	0	0	0	0	0	
7	6	6	9	0	0	0	0	0	0	0	0	10	7	7	2	0	0	0	0	0	0	0	
8	8	10	7	2	0	0	0	0	0	0	0	6	8	5	1	0	0	0	0	0	0	0	
9	11	8	7	0	0	0	0	0	0	0	0	7	7	6	2	0	0	0	0	0	0	0	
10	7	12	10	1	0	0	0	0	0	0	0	7	6	2	2	0	0	0	0	0	0	0	
11	14	8	5	0	0	0	0	0	0	0	0	6	3	4	2	0	0	0	0	0	0	0	
12	9	8	8	0	0	0	0	0	0	0	0	3	4	3	1	0	0	0	0	0	0	0	
13	11	8	3	0	0	0	0	0	0	0	0	1	0	2	1	0	0	0	0	0	0	0	
14	9	5	4	1	0	0	0	0	0	0	0	3	2	1	0	0	0	0	0	0	0	0	
15	4	5	3	1	0	0	0	0	0	0	0	3	1	2	0	0	0	0	0	0	0	0	
16	3	3	0	0	0	0	0	0	0	0	0	3	3	2	0	0	0	0	0	0	0	0	
17	3	1	0	0	0	0	0	0	0	0	0	3	4	1	0	0	0	0	0	0	0	0	
18	2	1	0	0	0	0	0	0	0	0	0	4	2	0	0	0	0	0	0	0	0	0	
19	2	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	
20-24	11	5	2	0	0	0	0	0	0	0	0	9	8	5	0	0	0	0	0	0	0	0	
25-29	8	5	3	0	0	0	0	0	0	0	0	7	6	4	0	0	0	0	0	0	0	0	
30-34	1	1	0	0	0	0	0	0	0	0	0	3	3	0	0	0	0	0	0	0	0	0	
35-39	2	0	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	
40-44	0	0	0	0	0	0	0	0	0	0	0	4	2	0	0	0	0	0	0	0	0	0	
45-49	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
50-59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
60-69	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	
70-79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
80-89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
90-99	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
≥100 MAXIMUM PERSIST	49	32	35	15	3	1	0	0	0	0	0	65	40	28	14	5	1	0	0	0	0	4	

19-FOOT LEVEL NOVEMBER 1950-1964												19-FOOT LEVEL DECEMBER 1950-1964											
NUMBER OF HOURS	WIND SPEED (MPH)										MISSING	NUMBER OF HOURS	WIND SPEED (MPH)										MISSING
	CALM	3	5	10	15	20	25	30	35	40			CALM	3	5	10	15	20	25	30	35	40	
1	95	87	66	18	7	1	0	0	0	0	0	105	93	77	52	12	1	0	0	0	0	0	
2	30	23	21	4	1	0	0	0	0	0	0	25	28	15	13	6	1	0	0	0	0	0	
3	22	26	18	4	2	0	0	0	0	0	0	19	10	12	7	2	0	0	0	0	0	0	
4	17	16	12	2	1	0	0	0	0	0	0	15	7	10	4	0	0	0	0	0	0	0	
5	9	11	5	2	0	0	0	0	0	0	0	7	8	5	5	0	0	0	0	0	0	0	
6	10	7	6	2	0	0	0	0	0	0	0	6	6	5	6	4	0	0	0	0	0	0	
7	11	7	8	1	0	0	0	0	0	0	0	8	9	6	4	1	0	0	0	0	0	0	
8	3	3	3	1	0	0	0	0	0	0	0	4	3	5	3	1	0	0	0	0	0	0	
9	3	5	3	0	0	0	0	0	0	0	0	6	8	3	3	0	0	0	0	0	0	0	
10	6	4	1	0	0	0	0	0	0	0	0	4	4	5	2	0	0	0	0	0	0	0	
11	3	2	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	
12	2	0	1	0	0	0	0	0	0	0	0	7	5	7	0	0	0	0	0	0	0	0	
13	1	1	1	1	0	0	0	0	0	0	0	2	1	1	0	0	0	0	0	0	0	0	
14	2	1	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	
15	1	0	0	1	0	0	0	0	0	0	0	3	3	1	2	0	0	0	0	0	0	0	
16	2	2	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	
17	1	2	0	1	0	0	0	0	0	0	0	3	4	2	0	0	0	0	0	0	0	0	
18	2	1	2	0	0	0	0	0	0	0	0	2	0	1	0	0	0	0	0	0	0	0	
19	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20-24	4	4	4	1	0	0	0	0	0	0	0	5	5	4	2	0	0	0	0	0	0	0	
25-29	2	2	2	0	0	0	0	0	0	0	0	1	4	2	1	0	0	0	0	0	0	0	
30-34	1	1	0	0	0	0	0	0	0	0	0	3	2	0	0	0	0	0	0	0	0	0	
35-39	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	
40-44	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
45-49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
50-59	0	0	0	0	0	0	0	0	0	0	0	2	1	2	0	0	0	0	0	0	0	0	
60-69	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	
70-79	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	
80-89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
90-99	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
≥100 MAXIMUM PERSIST	42	33	28	21	4	1	0	0	0	0	0	62	58	48	25	11	2	0	0	0	0	0	

Table 75. Frequency Distribution of the Number of Consecutive Hourly 19-foot Wind Speeds (mph) above Indicated Values When the Wind Direction Is between 96 and 185 degrees. 19-foot Level

19-FOOT LEVEL JANUARY 1950-1964												19-FOOT LEVEL FEBRUARY 1950-1964											
NUMBER OF HOURS	WIND SPEED (MPH)										MISSING	NUMBER OF HOURS	WIND SPEED (MPH)										MISSING
	CALM	3	5	10	15	20	25	30	35	40			CALM	3	5	10	15	20	25	30	35	40	
1	109	101	115	43	24	0	0	0	0	0	0	1	101	110	88	54	15	1	0	0	0	0	1
2	51	53	40	19	5	0	0	0	0	0	0	2	44	42	31	15	5	0	0	0	0	0	0
3	26	23	20	11	3	1	0	0	0	0	0	3	19	26	26	11	2	0	0	0	0	0	0
4	18	20	14	10	0	0	0	0	0	0	0	4	20	23	23	12	1	0	0	0	0	0	0
5	18	12	15	4	1	1	0	0	0	0	0	5	12	9	7	8	0	0	0	0	0	0	0
6	10	11	11	7	0	0	0	0	0	0	0	6	13	8	7	7	1	0	0	0	0	0	2
7	11	12	13	4	0	0	0	0	0	0	0	7	11	8	5	7	0	0	0	0	0	0	0
8	7	5	6	4	0	0	0	0	0	0	0	8	11	9	8	4	0	0	0	0	0	0	0
9	5	6	5	1	1	0	0	0	0	0	0	9	3	5	5	1	0	0	0	0	0	0	0
10	7	7	7	3	0	0	0	0	0	0	0	10	7	7	3	1	0	0	0	0	0	0	0
11	6	5	4	0	0	0	0	0	0	0	0	11	6	3	2	0	0	0	0	0	0	0	0
12	5	4	3	1	0	0	0	0	0	0	0	12	6	7	7	0	0	0	0	0	0	0	0
13	2	4	3	0	0	0	0	0	0	0	0	13	4	1	1	1	0	0	0	0	0	0	0
14	4	3	0	0	0	0	0	0	0	0	0	14	1	3	6	0	0	0	0	0	0	0	0
15	3	2	1	0	0	0	0	0	0	0	0	15	2	3	2	0	0	0	0	0	0	0	0
16	4	3	4	0	0	0	0	0	0	0	0	16	2	5	3	0	0	0	0	0	0	0	0
17	3	3	3	0	0	0	0	0	0	0	0	17	3	2	1	1	0	0	0	0	0	0	0
18	4	3	1	0	0	0	0	0	0	0	0	18	1	0	0	0	0	0	0	0	0	0	0
19	4	2	0	0	0	0	0	0	0	0	0	19	3	1	1	0	0	0	0	0	0	0	0
20-24	8	8	5	0	0	0	0	0	0	0	0	20-24	8	7	3	0	0	0	0	0	0	0	0
25-29	2	0	0	0	0	0	0	0	0	0	0	25-29	5	1	0	0	0	0	0	0	0	0	0
30-34	4	2	0	0	0	0	0	0	0	0	0	30-34	1	0	2	0	0	0	0	0	0	0	0
35-39	1	0	0	0	0	0	0	0	0	0	0	35-39	1	2	0	0	0	0	0	0	0	0	0
40-44	1	0	0	0	0	0	0	0	0	0	0	40-44	1	0	0	0	0	0	0	0	0	0	0
45-49	0	0	0	0	0	0	0	0	0	0	0	45-49	0	0	0	0	0	0	0	0	0	0	0
50-59	0	0	0	0	0	0	0	0	0	0	0	50-59	0	0	0	0	0	0	0	0	0	0	0
60-69	0	0	0	0	0	0	0	0	0	0	0	60-69	0	0	0	0	0	0	0	0	0	0	0
70-79	0	0	0	0	0	0	0	0	0	0	0	70-79	0	0	0	0	0	0	0	0	0	0	0
80-89	0	0	0	0	0	0	0	0	0	0	0	80-89	0	0	0	0	0	0	0	0	0	0	0
90-99	0	0	0	0	0	0	0	0	0	0	0	90-99	0	0	0	0	0	0	0	0	0	0	0
≥100	0	0	0	0	0	0	0	0	0	0	0	≥100	0	0	0	0	0	0	0	0	0	0	0
MAXIMUM PERSIST	41	31	24	12	9	5	0	0	0	0	0	MAXIMUM PERSIST	40	37	33	17	6	1	0	0	0	0	5

19-FOOT LEVEL MARCH 1950-1964												19-FOOT LEVEL APRIL 1950-1964											
NUMBER OF HOURS	WIND SPEED (MPH)										MISSING	NUMBER OF HOURS	WIND SPEED (MPH)										MISSING
	CALM	3	5	10	15	20	25	30	35	40			CALM	3	5	10	15	20	25	30	35	40	
1	119	111	92	62	30	7	0	0	0	0	0	1	153	160	137	76	32	4	0	0	0	0	1
2	63	53	51	28	9	2	1	0	0	0	0	2	66	57	48	35	2	1	0	0	0	0	0
3	31	33	28	12	9	0	0	0	0	0	0	3	37	35	26	20	4	1	0	0	0	0	0
4	18	15	15	11	0	1	0	0	0	0	0	4	18	24	20	7	3	0	0	0	0	0	0
5	17	14	15	3	0	1	0	0	0	0	0	5	20	18	13	13	4	0	0	0	0	0	0
6	11	8	9	6	2	1	0	0	0	0	0	6	15	16	13	5	2	0	0	0	0	0	0
7	10	12	11	3	0	0	0	0	0	0	0	7	15	7	9	4	1	0	0	0	0	0	0
8	10	9	7	2	2	0	0	0	0	0	0	8	13	13	7	2	0	0	0	0	0	0	0
9	11	7	4	2	2	0	0	0	0	0	0	9	9	8	4	6	0	0	0	0	0	0	0
10	2	4	1	0	1	0	0	0	0	0	0	10	10	4	5	4	0	0	0	0	0	0	0
11	7	6	4	0	0	0	0	0	0	0	0	11	4	3	1	5	0	0	0	0	0	0	0
12	6	6	6	2	0	0	0	0	0	0	0	12	7	3	4	2	0	0	0	0	0	0	0
13	2	1	2	1	0	0	0	0	0	0	0	13	2	3	4	0	0	0	0	0	0	0	0
14	3	2	6	1	0	0	0	0	0	0	0	14	7	5	4	0	0	0	0	0	0	0	0
15	4	4	1	2	0	0	0	0	0	0	0	15	5	6	4	1	0	0	0	0	0	0	0
16	2	2	4	2	0	0	0	0	0	0	0	16	1	3	2	0	0	0	0	0	0	0	0
17	3	2	1	1	0	0	0	0	0	0	0	17	3	4	4	0	0	0	0	0	0	0	0
18	4	4	2	1	0	0	0	0	0	0	0	18	2	1	2	0	0	0	0	0	0	0	0
19	2	1	1	1	0	0	0	0	0	0	0	19	1	0	0	0	0	0	0	0	0	0	0
20-24	7	6	2	0	0	0	0	0	0	0	0	20-24	5	3	4	0	0	0	0	0	0	0	0
25-29	6	5	3	0	0	0	0	0	0	0	0	25-29	2	3	3	0	0	0	0	0	0	0	0
30-34	2	1	0	0	0	0	0	0	0	0	0	30-34	2	2	0	0	0	0	0	0	0	0	0
35-39	1	1	1	0	0	0	0	0	0	0	0	35-39	2	0	0	0	0	0	0	0	0	0	0
40-44	0	0	0	0	0	0	0	0	0	0	0	40-44	0	0	0	0	0	0	0	0	0	0	0
45-49	0	0	0	0	0	0	0	0	0	0	0	45-49	0	0	0	0	0	0	0	0	0	0	0
50-59	0	0	0	0	0	0	0	0	0	0	0	50-59	0	0	0	0	0	0	0	0	0	0	0
60-69	0	0	0	0	0	0	0	0	0	0	0	60-69	0	0	0	0	0	0	0	0	0	0	0
70-79	0	0	0	0	0	0	0	0	0	0	0	70-79	0	0	0	0	0	0	0	0	0	0	0
80-89	0	0	0	0	0	0	0	0	0	0	0	80-89	0	0	0	0	0	0	0	0	0	0	0
90-99	0	0	0	0	0	0	0	0	0	0	0	90-99	0	0	0	0	0	0	0	0	0	0	0
≥100	0	0	0	0	0	0	0	0	0	0	0	≥100	0	0	0	0	0	0	0	0	0	0	0
MAXIMUM PERSIST	35	35	35	19	10	6	2	0	0	0	0	MAXIMUM PERSIST	39	33	29	15	7	3	0	0	0	0	1

Table 76. Frequency Distribution of the Number of Consecutive Hourly 19-foot Wind Speeds (mph) above Indicated Values When the Wind Direction Is between 96 and 185 degrees. 19-foot Level

19-FOOT LEVEL MAY 1950-1964												19-FOOT LEVEL JUNE 1950-1964											
NUMBER OF HOURS	WIND SPEED (MPH)										MISSING	NUMBER OF HOURS	WIND SPEED (MPH)										MISSING
	CALM	3	5	10	15	20	25	30	35	40			CALM	3	5	10	15	20	25	30	35	40	
1	221	202	154	77	38	4	1	1	0	0	0	1	254	248	187	39	6	1	1	0	0	0	0
2	71	70	44	31	5	0	0	0	0	0	0	1	120	106	58	11	1	0	0	0	0	0	0
3	48	46	41	12	5	0	0	0	0	0	0	0	70	52	28	6	0	0	0	0	0	0	0
4	36	34	22	5	2	0	1	0	0	0	0	0	41	28	22	2	0	0	0	0	0	0	0
5	24	20	17	8	0	0	0	0	0	0	0	0	28	20	13	2	0	0	0	0	0	0	0
6	23	15	21	6	0	0	0	0	0	0	0	0	21	15	6	0	0	0	0	0	0	0	0
7	15	14	8	4	1	1	0	0	0	0	0	0	15	7	4	1	0	0	0	0	0	0	0
8	10	7	8	1	1	0	0	0	0	0	0	0	12	5	10	0	0	0	0	0	0	0	0
9	8	10	5	2	0	0	0	0	0	0	0	0	11	6	3	0	0	0	0	0	0	0	0
10	6	4	5	2	0	0	0	0	0	0	0	0	10	6	3	0	0	0	0	0	0	0	0
11	5	3	5	1	0	0	0	0	0	0	0	0	7	2	2	0	0	0	0	0	0	0	0
12	1	3	2	2	0	0	0	0	0	0	0	0	4	1	0	0	0	0	0	0	0	0	0
13	3	2	3	1	0	0	0	0	0	0	0	0	2	4	2	0	0	0	0	0	0	0	0
14	5	3	1	0	0	0	0	0	0	0	0	0	2	1	1	0	0	0	0	0	0	0	0
15	3	3	2	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0
16	3	5	3	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
17	1	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
18	3	1	1	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0
19	4	3	1	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
20-24	7	1	2	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
25-29	6	5	4	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
30-34	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35-39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40-44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45-49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50-59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60-69	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70-79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80-89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90-99	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
≥100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MAXIMUM PERSIST	32	32	26	15	8	7	4	1	0	0	2	28	18	17	7	2	1	1	0	0	0	0	0

19-FOOT LEVEL JULY 1950-1964												19-FOOT LEVEL AUGUST 1950-1964											
NUMBER OF HOURS	WIND SPEED (MPH)										MISSING	NUMBER OF HOURS	WIND SPEED (MPH)										MISSING
	CALM	3	5	10	15	20	25	30	35	40			CALM	3	5	10	15	20	25	30	35	40	
1	291	252	163	22	1	0	0	0	0	0	3	1	271	240	160	24	2	0	0	0	0	0	0
2	121	88	53	5	0	0	0	0	0	0	0	2	106	72	45	10	0	0	0	0	0	0	1
3	74	46	35	1	0	0	0	0	0	0	0	3	54	35	21	2	0	0	0	0	0	0	0
4	36	21	14	2	0	0	0	0	0	0	0	4	49	26	9	4	0	0	0	0	0	0	0
5	25	15	5	0	0	0	0	0	0	0	0	5	22	14	12	1	0	0	0	0	0	0	0
6	13	11	5	0	0	0	0	0	0	0	0	6	18	13	5	0	0	0	0	0	0	0	0
7	20	10	4	0	0	0	0	0	0	0	0	7	10	13	5	0	0	0	0	0	0	0	0
8	13	4	3	0	0	0	0	0	0	0	0	8	6	3	3	0	0	0	0	0	0	0	0
9	7	2	1	0	0	0	0	0	0	0	0	9	13	7	6	0	0	0	0	0	0	0	0
10	8	6	3	0	0	0	0	0	0	0	0	10	10	4	3	0	0	0	0	0	0	0	0
11	5	4	1	0	0	0	0	0	0	0	0	11	3	6	2	0	0	0	0	0	0	0	0
12	1	2	0	0	0	0	0	0	0	0	0	12	6	2	2	0	0	0	0	0	0	0	0
13	4	3	0	0	0	0	0	0	0	0	0	13	6	2	0	0	0	0	0	0	0	0	0
14	3	1	0	0	0	0	0	0	0	0	0	14	5	1	0	0	0	0	0	0	0	0	0
15	1	1	0	0	0	0	0	0	0	0	0	15	0	2	0	0	0	0	0	0	0	0	0
16	1	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	17	1	2	0	0	0	0	0	0	0	0	0
18	1	0	0	0	0	0	0	0	0	0	0	18	0	0	0	0	0	0	0	0	0	0	0
19	2	0	0	0	0	0	0	0	0	0	0	19	1	0	0	0	0	0	0	0	0	0	0
20-24	2	0	0	0	0	0	0	0	0	0	0	20-24	7	1	0	0	0	0	0	0	0	0	0
25-29	2	0	0	0	0	0	0	0	0	0	0	25-29	2	0	0	0	0	0	0	0	0	0	0
30-34	0	0	0	0	0	0	0	0	0	0	0	30-34	0	0	0	0	0	0	0	0	0	0	0
35-39	0	0	0	0	0	0	0	0	0	0	0	35-39	1	0	0	0	0	0	0	0	0	0	0
40-44	0	0	0	0	0	0	0	0	0	0	0	40-44	0	0	0	0	0	0	0	0	0	0	0
45-49	0	0	0	0	0	0	0	0	0	0	0	45-49	0	0	0	0	0	0	0	0	0	0	0
50-59	0	0	0	0	0	0	0	0	0	0	0	50-59	0	0	0	0	0	0	0	0	0	0	0
60-69	0	0	0	0	0	0	0	0	0	0	0	60-69	0	0	0	0	0	0	0	0	0	0	0
70-79	0	0	0	0	0	0	0	0	0	0	0	70-79	0	0	0	0	0	0	0	0	0	0	0
80-89	0	0	0	0	0	0	0	0	0	0	0	80-89	0	0	0	0	0	0	0	0	0	0	0
90-99	0	0	0	0	0	0	0	0	0	0	0	90-99	0	0	0	0	0	0	0	0	0	0	0
≥100	0	0	0	0	0	0	0	0	0	0	0	≥100	0	0	0	0	0	0	0	0	0	0	0
MAXIMUM PERSIST	28	15	11	4	1	0	0	0	0	0	1	MAXIMUM PERSIST	35	21	12	5	1	0	0	0	0	0	2



Table 77. Frequency Distribution of the Number of Consecutive Hourly 19-foot Wind Speeds (mph) above Indicated Values When the Wind Direction Is between 96 and 185 degrees. 19-foot Level

19-FOOT LEVEL SEPTEMBER 1950-1964												19-FOOT LEVEL OCTOBER 1950-1964											
NUMBER OF HOURS	WIND SPEED (MPH)										MISSING	NUMBER OF HOURS	WIND SPEED (MPH)										MISSING
	CALM	3	5	10	15	20	25	30	35	40			CALM	3	5	10	15	20	25	30	35	40	
1	227	214	152	32	10	3	0	0	0	0	0	160	173	130	50	10	0	0	0	0	0	1	
2	100	89	73	13	3	1	0	0	0	0	0	76	75	49	21	1	0	0	0	0	0	1	
3	54	52	27	2	2	1	0	0	0	0	0	47	36	31	15	0	0	0	0	0	0	0	
4	36	27	20	4	1	0	0	0	0	0	0	32	22	14	8	1	0	0	0	0	0	0	
5	26	13	10	5	0	0	0	0	0	0	0	16	18	22	3	0	0	0	0	0	0	0	
6	17	13	11	0	0	0	0	0	0	0	0	17	15	11	1	0	0	0	0	0	0	0	
7	20	6	7	1	0	0	0	0	0	0	0	14	12	5	3	0	0	0	0	0	0	0	
8	14	13	6	2	0	0	0	0	0	0	0	10	8	13	1	0	0	0	0	0	0	0	
9	8	6	2	0	0	0	0	0	0	0	0	12	9	4	0	0	0	0	0	0	0	0	
10	12	5	3	0	0	0	0	0	0	0	0	4	4	3	1	0	0	0	0	0	0	0	
11	11	4	1	0	0	0	0	0	0	0	0	6	6	2	0	1	0	0	0	0	0	0	
12	8	4	1	0	0	0	0	0	0	0	0	6	1	3	0	0	0	0	0	0	0	0	
13	1	1	1	0	0	0	0	0	0	0	0	3	4	2	1	0	0	0	0	0	0	0	
14	1	1	0	0	0	0	0	0	0	0	0	6	3	1	0	0	0	0	0	0	0	0	
15	2	4	1	0	0	0	0	0	0	0	0	4	5	1	0	0	0	0	0	0	0	0	
16	3	0	0	0	0	0	0	0	0	0	0	2	2	2	0	0	0	0	0	0	0	0	
17	2	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	
18	1	0	0	0	0	0	0	0	0	0	0	2	1	1	0	0	0	0	0	0	0	0	
19	1	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	
20-24	4	2	0	0	0	0	0	0	0	0	0	9	5	2	0	0	0	0	0	0	0	0	
25-29	3	0	0	0	0	0	0	0	0	0	0	7	1	1	0	0	0	0	0	0	0	0	
30-34	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	
35-39	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
40-44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
45-49	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	
50-59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
60-69	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
70-79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
80-89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
90-99	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
≥100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
MAXIMUM PERSIST	29	24	15	8	4	3	0	0	0	0	4	47	46	35	13	11	0	0	0	0	0	2	

19-FOOT LEVEL NOVEMBER 1950-1964												19-FOOT LEVEL DECEMBER 1950-1964											
NUMBER OF HOURS	WIND SPEED (MPH)										MISSING	NUMBER OF HOURS	WIND SPEED (MPH)										MISSING
	CALM	3	5	10	15	20	25	30	35	40			CALM	3	5	10	15	20	25	30	35	40	
1	137	142	130	64	16	4	4	0	0	0	0	109	101	103	68	19	3	0	1	0	0	0	
2	61	53	49	27	8	2	0	0	0	0	0	53	54	40	12	3	0	1	0	0	0	0	
3	30	32	23	14	7	1	0	0	0	0	0	24	16	12	8	1	0	0	0	0	0	0	
4	29	27	18	9	3	2	0	0	0	0	0	16	20	18	9	3	1	0	0	0	0	0	
5	13	10	10	7	2	0	0	0	0	0	0	21	15	15	9	1	0	0	0	0	0	0	
6	14	15	17	7	0	1	0	0	0	0	0	14	13	10	4	2	0	0	0	0	0	0	
7	11	9	6	4	0	0	0	0	0	0	0	6	5	5	4	0	0	0	0	0	0	0	
8	9	8	9	0	0	0	0	0	0	0	0	9	11	8	3	0	0	0	0	0	0	0	
9	6	7	6	3	1	0	0	0	0	0	0	5	2	6	0	0	0	0	0	0	0	0	
10	9	9	5	1	0	0	0	0	0	0	0	7	8	7	3	0	0	0	0	0	0	0	
11	6	4	1	2	0	0	0	0	0	0	0	1	1	2	2	0	0	0	0	0	0	0	
12	4	2	1	0	0	0	0	0	0	0	0	7	4	0	0	0	0	0	0	0	0	0	
13	4	6	1	0	0	0	0	0	0	0	0	3	1	5	1	0	0	0	0	0	0	0	
14	4	3	5	0	0	0	0	0	0	0	0	2	5	2	2	0	0	0	0	0	0	0	
15	5	5	0	0	1	0	0	0	0	0	0	4	3	2	0	0	0	0	0	0	0	0	
16	1	2	2	0	0	0	0	0	0	0	0	2	0	1	0	0	0	0	0	0	0	0	
17	2	1	0	0	0	0	0	0	0	0	0	4	4	4	0	0	0	0	0	0	0	0	
18	1	2	3	1	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	
19	1	1	1	0	0	0	0	0	0	0	0	2	2	1	0	0	0	0	0	0	0	0	
20-24	9	1	1	0	0	0	0	0	0	0	0	11	13	3	0	0	0	0	0	0	0	0	
25-29	4	2	1	0	0	0	0	0	0	0	0	5	1	2	0	0	0	0	0	0	0	0	
30-34	5	3	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	
35-39	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	
40-44	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
45-49	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	
50-59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
60-69	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
70-79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
80-89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
90-99	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
≥100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
MAXIMUM PERSIST	34	34	34	18	15	6	1	0	0	0	0	49	48	44	14	6	4	2	1	0	0	0	

Table 78. Frequency Distribution of the Number of Consecutive Hourly 19-foot Wind Speeds (mph) above Indicated Values When the Wind Direction Is between 186 and 275 degrees. 19-foot Level.

19-FOOT LEVEL JANUARY 1950-1964												19-FOOT LEVEL FEBRUARY 1950-1964											
NUMBER OF HOURS	WIND SPEED (MPH)										MISSING	NUMBER OF HOURS	WIND SPEED (MPH)										MISSING
	CALM	3	5	10	15	20	25	30	35	40			CALM	3	5	10	15	20	25	30	35	40	
1	133	129	156	101	67	8	2	1	0	0	0	1	114	128	128	84	61	13	3	1	0	0	4
2	65	64	84	46	32	6	1	0	0	0	0	2	68	58	62	47	24	2	2	0	0	0	1
3	37	39	52	32	15	1	0	0	0	0	0	3	30	28	28	24	8	0	0	0	0	0	1
4	21	27	22	13	6	2	1	0	0	0	0	4	24	28	22	15	4	2	0	0	0	0	0
5	14	16	13	15	9	3	1	0	0	0	0	5	14	17	21	14	14	2	0	0	0	0	0
6	22	18	19	12	4	2	1	0	0	0	0	6	22	22	14	6	7	0	0	0	0	0	0
7	16	13	13	12	2	0	0	0	0	0	0	7	14	16	17	8	3	1	1	0	0	0	1
8	21	22	21	15	6	0	0	0	0	0	0	8	12	13	12	8	2	0	0	0	0	0	0
9	9	12	11	8	2	0	0	0	0	0	0	9	10	10	3	2	0	0	0	0	0	0	0
10	7	10	15	7	2	0	0	0	0	0	0	10	8	9	8	5	0	0	0	0	0	0	0
11	10	9	8	6	1	0	0	0	0	0	0	11	10	6	4	5	1	0	0	0	0	0	0
12	10	6	7	7	0	0	0	0	0	0	0	12	8	8	4	1	0	0	0	0	0	0	0
13	12	13	8	1	0	0	0	0	0	0	0	13	6	4	3	4	0	0	0	0	0	0	0
14	7	8	7	4	1	0	0	0	0	0	0	14	5	3	4	4	0	0	0	0	0	0	0
15	10	6	11	6	0	0	0	0	0	0	0	15	6	9	5	4	0	0	0	0	0	0	0
16	5	6	10	3	1	0	0	0	0	0	0	16	4	3	3	1	0	0	0	0	0	0	0
17	5	6	2	2	0	0	0	0	0	0	0	17	3	4	5	0	0	0	0	0	0	0	0
18	3	5	0	1	0	0	0	0	0	0	0	18	6	6	5	2	0	0	0	0	0	0	0
19	11	10	6	2	0	0	0	0	0	0	0	19	4	5	4	2	0	0	0	0	0	0	0
20-24	23	22	19	4	0	1	0	0	0	0	0	20-24	19	14	21	5	0	1	0	0	0	0	0
25-29	19	16	8	2	0	0	0	0	0	0	0	25-29	6	7	6	0	1	0	0	0	0	0	0
30-34	8	7	5	3	1	0	0	0	0	0	0	30-34	4	4	1	5	0	0	0	0	0	0	0
35-39	1	1	3	0	0	0	0	0	0	0	0	35-39	7	5	4	0	0	0	0	0	0	0	0
40-44	5	5	0	1	0	0	0	0	0	0	0	40-44	1	1	1	0	0	0	0	0	0	0	0
45-49	3	1	2	0	0	0	0	0	0	0	0	45-49	2	3	1	0	0	0	0	0	0	0	0
50-59	5	4	3	0	0	0	0	0	0	0	0	50-59	3	1	1	0	0	0	0	0	0	0	0
60-69	2	3	2	0	0	0	0	0	0	0	0	60-69	0	1	1	0	0	0	0	0	0	0	0
70-79	1	0	0	0	0	0	0	0	0	0	0	70-79	1	0	0	0	0	0	0	0	0	0	0
80-89	0	0	0	0	0	0	0	0	0	0	0	80-89	0	1	0	0	0	0	0	0	0	0	0
90-99	0	0	0	0	0	0	0	0	0	0	0	90-99	1	0	0	0	0	0	0	0	0	0	0
≥100	0	0	0	0	0	0	0	0	0	0	0	≥100	0	0	0	0	0	0	0	0	0	0	0
MAXIMUM PERSIST	70	66	65	41	34	22	6	1	0	0	0	MAXIMUM PERSIST	98	85	68	34	27	20	7	1	0	0	7

19-FOOT LEVEL MARCH 1950-1964												19-FOOT LEVEL APRIL 1950-1964											
NUMBER OF HOURS	WIND SPEED (MPH)										MISSING	NUMBER OF HOURS	WIND SPEED (MPH)										MISSING
	CALM	3	5	10	15	20	25	30	35	40			CALM	3	5	10	15	20	25	30	35	40	
1	145	143	139	91	55	32	11	4	0	0	0	1	155	152	153	101	60	28	8	1	0	0	0
2	58	68	62	32	29	15	3	1	0	0	0	2	50	65	68	33	25	12	0	0	0	0	1
3	32	26	28	25	18	3	1	0	0	0	0	3	31	35	32	27	10	4	0	0	0	0	0
4	26	25	17	17	8	1	0	0	0	0	0	4	32	34	28	17	8	3	1	0	0	0	0
5	16	17	18	24	8	4	0	0	0	0	0	5	22	22	20	18	6	0	2	0	0	0	0
6	19	18	13	9	6	1	2	0	0	0	0	6	25	24	17	16	5	4	0	0	0	0	0
7	13	14	16	6	3	1	0	0	0	0	0	7	11	16	12	6	3	0	0	0	0	0	0
8	15	16	13	12	5	0	2	0	0	0	0	8	14	12	12	11	5	0	0	0	0	0	0
9	18	13	13	4	4	0	0	0	0	0	0	9	19	16	11	7	5	1	0	0	0	0	0
10	9	12	10	7	1	0	0	0	0	0	0	10	5	4	5	4	4	0	0	0	0	0	0
11	9	7	9	4	3	0	0	0	0	0	0	11	6	6	3	6	1	1	0	0	0	0	0
12	13	9	6	3	2	0	0	0	0	0	0	12	4	5	4	1	3	0	0	0	0	0	0
13	4	3	4	1	0	0	0	0	0	0	0	13	10	9	4	1	2	0	0	0	0	0	0
14	3	5	5	4	2	1	0	0	0	0	0	14	6	7	8	5	1	1	0	0	0	0	0
15	11	8	4	3	0	1	0	0	0	0	0	15	4	3	3	2	1	0	0	0	0	0	0
16	5	4	2	2	1	1	0	0	0	0	0	16	7	7	6	3	1	0	0	0	0	0	0
17	2	1	2	1	0	0	0	0	0	0	0	17	5	2	5	1	1	0	0	0	0	0	0
18	2	2	5	4	1	0	0	0	0	0	0	18	1	2	0	4	0	0	0	0	0	0	0
19	7	3	1	3	1	0	0	0	0	0	0	19	1	1	1	1	0	0	0	0	0	0	0
20-24	7	7	7	6	1	0	0	0	0	0	0	20-24	7	7	9	4	3	0	0	0	0	0	0
25-29	9	9	9	1	1	0	0	0	0	0	0	25-29	8	10	6	1	0	0	0	0	0	0	0
30-34	3	3	2	3	0	0	0	0	0	0	0	30-34	6	5	1	1	0	0	0	0	0	0	0
35-39	3	3	2	1	0	0	0	0	0	0	0	35-39	4	3	6	2	0	0	0	0	0	0	0
40-44	4	3	0	0	0	0	0	0	0	0	0	40-44	4	5	4	0	0	0	0	0	0	0	0
45-49	1	1	2	0	0	0	0	0	0	0	0	45-49	2	1	1	0	0	0	0	0	0	0	0
50-59	2	2	2	0	0	0	0	0	0	0	0	50-59	4	2	1	0	0	0	0	0	0	0	0
60-69	2	2	2	0	0	0	0	0	0	0	0	60-69	0	1	0	0	0	0	0	0	0	0	0
70-79	0	1	0	0	0	0	0	0	0	0	0	70-79	0	1	1	0	0	0	0	0	0	0	0
80-89	1	0	0	0	0	0	0	0	0	0	0	80-89	1	0	0	0	0	0	0	0	0	0	0
90-99	0	0	0	0	0	0	0	0	0	0	0	90-99	0	0	0	0	0	0	0	0	0	0	0
≥100	0	0	0	0	0	0	0	0	0	0	0	≥100	1	0	0	0	0	0	0	0	0	0	0
MAXIMUM PERSIST	86	75	63	36	25	16	8	1	0	0	0	MAXIMUM PERSIST	104	78	76	38	22	14	11	1	0	0	2

Table 79. Frequency Distribution of the Number of Consecutive Hourly 19-foot Wind Speeds (mph) above Indicated Values When the Wind Direction Is between 186 and 275 degrees. 19-foot Level

19-FOOT LEVEL MAY 1950-1964												19-FOOT LEVEL JUNE 1950-1964											
NUMBER OF HOURS	WIND SPEED (MPH)										MISSING	NUMBER OF HOURS	WIND SPEED (MPH)										MISSING
	CALM	3	5	10	15	20	25	30	35	40			CALM	3	5	10	15	20	25	30	35	40	
1	176	184	181	129	66	19	5	2	0	0	0	1	226	219	201	114	27	4	2	0	0	0	0
2	78	77	68	44	27	6	2	0	0	0	0	0	2	104	100	62	33	7	0	0	0	0	0
3	47	41	47	24	13	3	1	0	0	0	0	0	3	50	33	53	24	4	0	0	0	0	0
4	34	32	25	23	14	3	0	0	0	0	0	0	4	34	45	39	15	3	0	0	0	0	0
5	25	25	25	9	5	1	0	0	0	0	0	0	5	36	33	32	16	1	0	0	0	0	0
6	27	24	20	14	3	2	0	0	0	0	0	0	6	28	27	16	10	2	0	0	0	0	0
7	9	10	18	14	4	1	0	0	0	0	0	0	7	20	20	11	6	0	0	0	0	0	0
8	11	10	10	10	3	1	0	0	0	0	0	0	8	18	21	19	4	2	1	0	0	0	0
9	16	17	15	13	0	0	0	0	0	0	0	0	9	16	10	12	7	0	0	0	0	0	0
10	12	13	12	7	2	1	0	0	0	0	0	0	10	11	10	9	3	0	0	0	0	0	0
11	7	8	6	8	1	0	0	0	0	0	0	0	11	10	10	8	2	1	0	0	0	0	0
12	5	5	5	7	2	0	0	0	0	0	0	0	12	6	10	9	1	0	0	0	0	0	0
13	3	3	6	0	0	0	0	0	0	0	0	0	13	14	9	11	3	0	0	0	0	0	0
14	5	6	10	2	1	0	0	0	0	0	0	0	14	7	7	6	0	0	0	0	0	0	0
15	7	10	7	2	0	0	0	0	0	0	0	0	15	7	7	6	4	2	0	0	0	0	0
16	6	5	5	0	0	0	0	0	0	0	0	0	16	8	7	4	0	0	0	0	0	0	0
17	2	1	1	1	1	0	0	0	0	0	0	0	17	2	5	5	0	0	0	0	0	0	0
18	6	5	2	0	0	0	0	0	0	0	0	0	18	3	3	2	0	0	0	0	0	0	0
19	5	5	3	1	0	0	0	0	0	0	0	0	19	3	2	1	0	0	0	0	0	0	0
20-24	13	11	6	1	1	0	0	0	0	0	0	0	20-24	20	14	6	0	0	0	0	0	0	0
25-29	13	12	5	2	1	0	0	0	0	0	0	0	25-29	7	5	2	0	0	0	0	0	0	0
30-34	7	8	4	2	0	0	0	0	0	0	0	0	30-34	8	3	1	0	0	0	0	0	0	0
35-39	4	3	4	0	0	0	0	0	0	0	0	0	35-39	4	3	4	0	0	0	0	0	0	0
40-44	2	1	0	1	0	0	0	0	0	0	0	0	40-44	0	2	0	0	0	0	0	0	0	0
45-49	1	1	3	0	0	0	0	0	0	0	0	0	45-49	2	1	0	0	0	0	0	0	0	0
50-59	2	2	2	0	0	0	0	0	0	0	0	0	50-59	2	0	0	0	0	0	0	0	0	0
60-69	3	4	0	0	0	0	0	0	0	0	0	0	60-69	0	0	0	0	0	0	0	0	0	0
70-79	2	0	0	0	0	0	0	0	0	0	0	0	70-79	0	0	0	0	0	0	0	0	0	0
80-89	1	0	0	0	0	0	0	0	0	0	0	0	80-89	0	0	0	0	0	0	0	0	0	0
90-99	0	0	0	0	0	0	0	0	0	0	0	0	90-99	0	0	0	0	0	0	0	0	0	0
≥100	0	0	0	0	0	0	0	0	0	0	0	0	≥100	0	0	0	0	0	0	0	0	0	0
MAXIMUM PERSIST	84	64	57	42	26	10	3	1	0	0	0	0	MAXIMUM PERSIST	53	49	39	15	11	8	1	0	0	0

19-FOOT LEVEL JULY 1950-1964												19-FOOT LEVEL AUGUST 1950-1964											
NUMBER OF HOURS	WIND SPEED (MPH)										MISSING	NUMBER OF HOURS	WIND SPEED (MPH)										MISSING
	CALM	3	5	10	15	20	25	30	35	40			CALM	3	5	10	15	20	25	30	35	40	
1	235	264	234	103	14	0	0	0	0	0	2	1	217	227	210	88	14	3	1	0	0	0	0
2	108	123	84	30	5	0	0	0	0	0	1	2	105	96	75	31	6	0	0	0	0	0	0
3	56	45	55	15	0	0	0	0	0	0	0	3	47	51	33	15	1	0	0	0	0	0	0
4	38	41	41	10	0	0	0	0	0	0	0	4	36	41	29	19	1	0	0	0	0	0	0
5	44	40	30	12	0	0	0	0	0	0	0	5	28	20	18	13	0	0	0	0	0	0	0
6	26	29	21	10	1	0	0	0	0	0	0	6	30	23	21	6	0	0	0	0	0	0	0
7	23	19	13	3	0	0	0	0	0	0	0	7	32	23	19	2	1	0	0	0	0	0	0
8	20	21	14	0	0	0	0	0	0	0	0	8	14	14	12	4	0	0	0	0	0	0	0
9	20	13	9	3	0	0	0	0	0	0	0	9	18	12	16	2	0	0	0	0	0	0	1
10	14	14	11	1	0	0	0	0	0	0	0	10	11	15	13	0	0	0	0	0	0	0	0
11	10	9	8	1	0	0	0	0	0	0	0	11	11	14	13	1	0	0	0	0	0	0	0
12	4	8	10	2	0	0	0	0	0	0	0	12	11	11	9	0	0	0	0	0	0	0	0
13	11	9	2	0	0	0	0	0	0	0	0	13	9	10	9	0	0	0	0	0	0	0	0
14	5	6	6	0	0	0	0	0	0	0	0	14	9	8	2	0	0	0	0	0	0	0	0
15	2	7	3	0	0	0	0	0	0	0	0	15	8	8	3	0	0	0	0	0	0	0	0
16	2	2	2	0	0	0	0	0	0	0	0	16	3	1	1	0	0	0	0	0	0	0	0
17	5	3	2	0	0	0	0	0	0	0	0	17	7	2	3	0	0	0	0	0	0	0	0
18	9	7	2	0	0	0	0	0	0	0	0	18	3	0	1	0	0	0	0	0	0	0	0
19	8	2	4	0	0	0	0	0	0	0	0	19	4	5	0	0	0	0	0	0	0	0	0
20-24	15	9	2	0	0	0	0	0	0	0	0	20-24	15	13	9	0	0	0	0	0	0	0	0
25-29	7	7	0	0	0	0	0	0	0	0	0	25-29	7	5	2	1	0	0	0	0	0	0	0
30-34	7	2	1	0	0	0	0	0	0	0	0	30-34	5	1	1	0	0	0	0	0	0	0	0
35-39	3	0	0	0	0	0	0	0	0	0	0	35-39	7	5	1	0	0	0	0	0	0	0	0
40-44	2	2	0	0	0	0	0	0	0	0	0	40-44	1	0	0	0	0	0	0	0	0	0	0
45-49	2	0	0	0	0	0	0	0	0	0	0	45-49	5	4	0	0	0	0	0	0	0	0	0
50-59	2	0	0	0	0	0	0	0	0	0	0	50-59	4	0	0	0	0	0	0	0	0	0	0
60-69	0	0	0	0	0	0	0	0	0	0	0	60-69	1	0	0	0	0	0	0	0	0	0	0
70-79	0	0	0	0	0	0	0	0	0	0	0	70-79	1	0	0	0	0	0	0	0	0	0	0
80-89	0	0	0	0	0	0	0	0	0	0	0	80-89	0	0	0	0	0	0	0	0	0	0	0
90-99	0	0	0	0	0	0	0	0	0	0	0	90-99	0	0	0	0	0	0	0	0	0	0	0
≥100	0	0	0	0	0	0	0	0	0	0	0	≥100	0	0	0	0	0	0	0	0	0	0	0
MAXIMUM PERSIST	52	44	34	12	6	0	0	0	0	0	2	MAXIMUM PERSIST	77	48	36	26	7	1	1	0	0	0	9

Table 80. Frequency Distribution of the Number of Consecutive Hourly 19-foot Wind Speeds (mph) above Indicated Values When the Wind Direction Is between 186 and 275 degrees. 19-foot Level

19-FOOT LEVEL SEPTEMBER 1950-1964												19-FOOT LEVEL OCTOBER 1950-1964												
NUMBER OF HOURS	WIND SPEED (MPH)										MISSING	NUMBER OF HOURS	WIND SPEED (MPH)										MISSING	
	CALM	3	5	10	15	20	25	30	35	40			CALM	3	5	10	15	20	25	30	35	40		
1	198	196	184	89	36	9	0	0	0	0	0	1	182	193	136	95	32	6	0	0	0	0	0	0
2	74	85	80	34	11	0	0	0	0	0	0	0	2	69	68	68	38	8	3	0	0	0	0	1
3	47	46	37	13	4	0	0	0	0	0	0	0	3	48	51	34	25	7	0	0	0	0	0	0
4	28	35	31	14	1	0	0	0	0	0	0	0	4	31	27	22	15	6	0	0	0	0	0	0
5	22	20	16	11	1	1	0	0	0	0	0	0	5	25	20	18	13	5	0	0	0	0	0	0
6	23	23	25	16	2	0	0	0	0	0	0	0	6	19	17	19	14	1	0	0	0	0	0	0
7	16	21	16	10	2	0	0	0	0	0	0	0	7	15	17	15	4	0	0	0	0	0	0	0
8	12	12	12	13	0	0	0	0	0	0	0	0	8	15	16	13	6	0	0	0	0	0	0	0
9	14	18	14	3	1	0	0	0	0	0	0	0	9	17	22	19	9	1	0	0	0	0	0	0
10	13	15	10	3	1	0	0	0	0	0	0	0	10	17	13	12	9	1	0	0	0	0	0	0
11	13	16	12	1	1	0	0	0	0	0	0	0	11	10	12	9	3	0	0	0	0	0	0	0
12	11	11	8	0	0	0	0	0	0	0	0	0	12	9	7	11	2	1	0	0	0	0	0	0
13	8	10	5	1	0	0	0	0	0	0	0	0	13	7	6	4	3	0	0	0	0	0	0	0
14	9	6	6	2	0	0	0	0	0	0	0	0	14	5	5	2	3	0	0	0	0	0	0	0
15	7	3	6	0	0	0	0	0	0	0	0	0	15	7	9	5	0	0	0	0	0	0	0	0
16	5	2	6	0	0	0	0	0	0	0	0	0	16	5	7	11	0	0	0	0	0	0	0	0
17	2	3	6	0	0	0	0	0	0	0	0	0	17	7	7	4	1	0	0	0	0	0	0	0
18	7	6	4	4	0	0	0	0	0	0	0	0	18	4	2	2	1	0	0	0	0	0	0	0
19	4	6	2	0	0	0	0	0	0	0	0	0	19	5	4	3	0	0	0	0	0	0	0	0
20-24	24	14	6	1	0	0	0	0	0	0	0	0	20-24	15	12	11	0	0	0	0	0	0	0	0
25-29	8	6	1	0	0	0	0	0	0	0	0	0	25-29	13	6	6	1	0	0	0	0	0	0	0
30-34	7	3	4	1	0	0	0	0	0	0	0	0	30-34	6	5	4	2	0	0	0	0	0	0	0
35-39	2	3	0	0	0	0	0	0	0	0	0	0	35-39	5	2	3	0	0	0	0	0	0	0	0
40-44	3	2	0	0	0	0	0	0	0	0	0	0	40-44	4	6	1	0	0	0	0	0	0	0	0
45-49	1	0	1	0	0	0	0	0	0	0	0	0	45-49	1	1	2	0	0	0	0	0	0	0	0
50-59	1	0	0	0	0	0	0	0	0	0	0	0	50-59	2	2	2	0	0	0	0	0	0	0	0
60-69	1	1	0	0	0	0	0	0	0	0	0	0	60-69	2	2	0	0	0	0	0	0	0	0	0
70-79	0	0	0	0	0	0	0	0	0	0	0	0	70-79	1	2	0	0	0	0	0	0	0	0	0
80-89	0	0	0	0	0	0	0	0	0	0	0	0	80-89	2	0	0	0	0	0	0	0	0	0	0
90-99	0	0	0	0	0	0	0	0	0	0	0	0	90-99	1	0	0	0	0	0	0	0	0	0	0
≥100	0	0	0	0	0	0	0	0	0	0	0	0	≥100	0	0	0	0	0	0	0	0	0	0	0
MAXIMUM PERSIST	61	61	45	31	11	5	0	0	0	0	0	0	MAXIMUM PERSIST	97	79	56	32	12	2	0	0	0	0	2

19-FOOT LEVEL NOVEMBER 1950-1964												19-FOOT LEVEL DECEMBER 1950-1964												
NUMBER OF HOURS	WIND SPEED (MPH)										MISSING	NUMBER OF HOURS	WIND SPEED (MPH)										MISSING	
	CALM	3	5	10	15	20	25	30	35	40			CALM	3	5	10	15	20	25	30	35	40		
1	144	181	196	119	60	32	8	1	0	0	0	1	180	178	177	143	69	14	2	0	0	0	0	0
2	82	79	78	47	29	9	4	0	0	0	0	0	2	55	69	64	51	23	5	0	0	0	0	0
3	37	44	48	39	14	4	2	0	0	0	0	0	3	35	39	29	21	13	1	0	0	0	0	0
4	36	39	35	20	16	2	1	0	0	0	0	0	4	27	27	25	29	9	0	0	0	0	0	0
5	22	30	28	19	5	3	1	0	0	0	0	0	5	11	21	24	16	6	0	0	0	0	0	0
6	17	16	16	17	12	1	1	0	0	0	0	0	6	18	25	22	19	1	1	0	0	0	0	0
7	22	25	22	22	2	1	0	0	0	0	0	0	7	18	12	15	15	1	0	0	0	0	0	0
8	9	7	16	2	5	0	0	0	0	0	0	0	8	18	18	19	11	0	1	0	0	0	0	0
9	14	12	14	9	2	1	1	0	0	0	0	0	9	15	14	6	7	1	0	0	0	0	0	0
10	10	12	12	7	1	2	0	0	0	0	0	0	10	19	15	14	5	1	0	0	0	0	0	0
11	7	6	10	4	0	0	0	0	0	0	0	0	11	8	6	8	8	1	0	0	0	0	0	0
12	6	6	4	0	0	0	0	0	0	0	0	0	12	4	3	5	4	0	0	0	0	0	0	0
13	8	8	6	3	3	0	0	0	0	0	0	0	13	6	8	5	3	1	0	0	0	0	0	0
14	5	11	8	7	0	1	0	0	0	0	0	0	14	6	6	9	4	0	0	0	0	0	0	0
15	4	7	4	3	1	0	0	0	0	0	0	0	15	11	10	10	1	0	0	0	0	0	0	0
16	11	8	8	6	1	0	0	0	0	0	0	0	16	9	9	4	2	1	0	0	0	0	0	0
17	3	3	4	0	1	0	0	0	0	0	0	0	17	12	9	6	1	0	0	0	0	0	0	0
18	5	7	4	2	0	1	0	0	0	0	0	0	18	4	5	3	1	1	0	0	0	0	0	0
19	5	5	5	2	0	0	0	0	0	0	0	0	19	9	2	6	2	1	0	0	0	0	0	0
20-24	29	27	23	6	4	0	0	0	0	0	0	0	20-24	22	21	19	9	1	0	0	0	0	0	0
25-29	12	14	10	6	2	0	0	0	0	0	0	0	25-29	15	14	8	2	1	0	0	0	0	0	0
30-34	13	8	6	2	0	0	0	0	0	0	0	0	30-34	17	14	10	2	0	0	0	0	0	0	0
35-39	9	10	6	0	0	0	0	0	0	0	0	0	35-39	7	6	3	0	0	0	0	0	0	0	0
40-44	7	2	2	0	0	0	0	0	0	0	0	0	40-44	2	0	2	1	0	0	0	0	0	0	0
45-49	3	3	2	1	0	0	0	0	0	0	0	0	45-49	1	2	2	0	0	0	0	0	0	0	0
50-59	4	3	0	0	0	0	0	0	0	0	0	0	50-59	4	3	1	0	0	0	0	0	0	0	0
60-69	4	2	2	0	0	0	0	0	0	0	0	0	60-69	1	1	1	0	0	0	0	0	0	0	0
70-79	0	1	0	0	0	0	0	0	0	0	0	0	70-79	2	2	2	0	0	0	0	0	0	0	0
80-89	0	0	0	0	0	0	0	0	0	0	0	0	80-89	1	1	1	0	0	0	0	0	0	0	0
90-99	0	0	0	0	0	0	0	0	0	0	0	0	90-99	0	0	0	0	0	0	0	0	0	0	0
≥100	1	0	0	0	0	0	0	0	0	0	0	0	≥100	0	0	0	0	0	0	0	0	0	0	0
MAXIMUM PERSIST	110	72	63	46	29	18	9	1	0	0	0	0	MAXIMUM PERSIST	86	86	81	43	25	9	1	0	0	0	0

Table 81. Frequency Distribution of the Number of Consecutive Hourly 19-foot Wind Speeds (mph) above Indicated Values When the Wind Direction Is between 276 and 5 degrees. 19-foot Level

19-FOOT LEVEL JANUARY 1950-1964												19-FOOT LEVEL FEBRUARY 1950-1964											
NUMBER OF HOURS	WIND SPEED (MPH)										MISSING	NUMBER OF HOURS	WIND SPEED (MPH)										MISSING
	CALM	3	5	10	15	20	25	30	35	40			CALM	3	5	10	15	20	25	30	35	40	
1	138	139	143	97	45	12	4	0	0	0	1	1	123	158	149	86	43	17	3	0	0	0	4
2	78	71	67	47	26	1	0	0	0	0	0	2	64	67	51	39	17	4	1	0	0	0	0
3	39	46	37	26	11	0	0	0	0	0	0	3	42	38	30	29	11	3	0	0	0	0	0
4	37	33	25	24	6	2	0	0	0	0	0	4	21	18	20	14	9	1	0	0	0	0	0
5	14	13	16	12	4	0	0	0	0	0	0	5	13	12	16	9	2	0	0	0	0	0	0
6	12	16	16	12	4	1	0	0	0	0	0	6	15	11	9	10	5	0	0	0	0	0	0
7	8	11	8	6	1	0	0	0	0	0	0	7	7	8	9	12	1	0	0	0	0	0	0
8	10	11	12	7	0	0	0	0	0	0	0	8	12	12	10	10	1	0	0	0	0	0	0
9	11	8	9	8	2	0	0	0	0	0	0	9	9	8	12	3	3	0	0	0	0	0	0
10	12	14	8	5	2	0	0	0	0	0	0	10	9	5	12	4	1	0	0	0	0	0	0
11	10	8	7	4	0	0	0	0	0	0	0	11	7	10	5	2	0	0	0	0	0	0	0
12	8	7	6	4	1	0	0	0	0	0	0	12	5	6	6	1	0	0	0	0	0	0	0
13	8	7	5	4	1	0	0	0	0	0	0	13	8	6	6	4	0	0	0	0	0	0	0
14	5	2	5	1	1	0	0	0	0	0	0	14	9	4	2	5	0	0	0	0	0	0	0
15	5	10	6	2	0	0	0	0	0	0	0	15	4	5	4	3	0	0	0	0	0	0	0
16	5	4	4	2	0	0	0	0	0	0	0	16	10	8	6	2	0	0	0	0	0	0	0
17	4	3	2	1	0	0	0	0	0	0	0	17	3	2	3	1	0	0	0	0	0	0	1
18	5	4	5	2	0	0	0	0	0	0	0	18	6	10	10	0	0	0	0	0	0	0	0
19	2	2	1	1	0	0	0	0	0	0	0	19	4	3	1	1	0	0	0	0	0	0	0
20-24	19	13	14	6	0	0	0	0	0	0	0	20-24	12	10	8	1	1	0	0	0	0	0	0
25-29	7	6	4	1	0	0	0	0	0	0	0	25-29	5	5	3	1	0	0	0	0	0	0	0
30-34	9	9	5	1	0	0	0	0	0	0	0	30-34	6	3	2	1	0	0	0	0	0	0	0
35-39	4	2	4	0	0	0	0	0	0	0	0	35-39	6	6	3	0	1	0	0	0	0	0	0
40-44	5	4	2	1	0	0	0	0	0	0	0	40-44	3	3	4	1	0	0	0	0	0	0	0
45-49	2	3	3	0	0	0	0	0	0	0	0	45-49	1	1	2	0	0	0	0	0	0	0	0
50-59	2	1	0	0	0	0	0	0	0	0	0	50-59	3	2	1	1	0	0	0	0	0	0	0
60-69	0	1	1	0	0	0	0	0	0	0	0	60-69	0	0	0	0	0	0	0	0	0	0	0
70-79	1	1	0	0	0	0	0	0	0	0	0	70-79	1	1	0	0	0	0	0	0	0	0	0
80-89	1	0	0	0	0	0	0	0	0	0	0	80-89	0	0	0	0	0	0	0	0	0	0	0
90-99	0	0	0	0	0	0	0	0	0	0	0	90-99	1	1	1	0	0	0	0	0	0	0	0
≥100	0	0	0	0	0	0	0	0	0	0	0	≥100	0	0	0	0	0	0	0	0	0	0	0
MAXIMUM PERSIST	80	79	63	43	14	6	1	0	0	0	1	MAXIMUM PERSIST	95	95	93	56	36	4	2	0	0	0	16

19-FOOT LEVEL MARCH 1950-1964												19-FOOT LEVEL APRIL 1950-1964											
NUMBER OF HOURS	WIND SPEED (MPH)										MISSING	NUMBER OF HOURS	WIND SPEED (MPH)										MISSING
	CALM	3	5	10	15	20	25	30	35	40			CALM	3	5	10	15	20	25	30	35	40	
1	177	176	170	98	42	22	3	0	0	0	0	1	148	157	164	92	70	25	2	0	0	0	0
2	56	54	54	42	12	4	3	0	0	0	0	2	63	60	61	39	22	8	0	0	0	0	0
3	41	37	34	27	10	4	1	0	0	0	0	3	39	35	38	23	17	3	0	0	0	0	0
4	25	26	27	12	7	0	0	0	0	0	0	4	24	24	24	21	5	3	0	0	0	0	0
5	22	24	28	9	4	5	1	0	0	0	0	5	27	30	17	10	6	1	0	0	0	0	0
6	19	17	8	7	4	0	0	0	0	0	0	6	20	17	19	9	0	1	0	0	0	0	0
7	13	13	11	9	4	2	0	0	0	0	0	7	7	8	5	10	3	1	0	0	0	0	0
8	17	13	12	7	5	0	0	0	0	0	0	8	15	12	8	10	2	0	0	0	0	0	0
9	11	11	14	5	2	0	0	0	0	0	0	9	4	9	6	7	3	0	0	0	0	0	0
10	8	10	3	7	3	0	0	0	0	0	0	10	12	10	13	3	3	0	0	0	0	0	0
11	10	9	10	6	1	2	0	0	0	0	0	11	6	4	6	4	0	0	0	0	0	0	0
12	6	4	8	4	2	1	0	0	0	0	0	12	6	6	4	6	4	0	0	0	0	0	0
13	3	1	5	3	0	0	0	0	0	0	0	13	3	2	3	3	2	0	0	0	0	0	0
14	3	5	7	3	0	0	0	0	0	0	0	14	3	4	3	5	0	0	0	0	0	0	0
15	5	5	1	1	1	0	0	0	0	0	0	15	6	6	7	1	1	0	0	0	0	0	0
16	5	4	6	3	0	0	0	0	0	0	0	16	8	8	4	4	1	0	0	0	0	0	0
17	1	2	1	1	0	0	0	0	0	0	0	17	3	1	5	0	0	0	0	0	0	0	0
18	3	6	6	1	1	0	0	0	0	0	0	18	4	5	2	2	0	0	0	0	0	0	0
19	1	1	2	0	0	0	0	0	0	0	0	19	7	5	6	0	0	0	0	0	0	0	0
20-24	13	8	8	2	1	0	0	0	0	0	0	20-24	8	8	7	1	0	0	0	0	0	0	0
25-29	12	9	7	3	1	0	0	0	0	0	0	25-29	9	8	5	2	0	0	0	0	0	0	0
30-34	4	5	4	1	0	0	0	0	0	0	0	30-34	2	3	1	0	0	0	0	0	0	0	0
35-39	3	2	2	0	0	0	0	0	0	0	0	35-39	2	3	2	1	0	0	0	0	0	0	0
40-44	1	4	2	0	0	0	0	0	0	0	0	40-44	3	3	3	0	0	0	0	0	0	0	0
45-49	4	2	1	1	0	0	0	0	0	0	0	45-49	1	1	0	0	0	0	0	0	0	0	0
50-59	2	1	0	0	0	0	0	0	0	0	0	50-59	1	0	0	0	0	0	0	0	0	0	0
60-69	2	2	0	0	0	0	0	0	0	0	0	60-69	1	0	0	0	0	0	0	0	0	0	0
70-79	0	0	0	0	0	0	0	0	0	0	0	70-79	0	0	0	0	0	0	0	0	0	0	0
80-89	0	0	0	0	0	0	0	0	0	0	0	80-89	0	0	0	0	0	0	0	0	0	0	0
90-99	0	0	0	0	0	0	0	0	0	0	0	90-99	0	0	0	0	0	0	0	0	0	0	0
≥100	0	0	0	0	0	0	0	0	0	0	0	≥100	0	0	0	0	0	0	0	0	0	0	0
MAXIMUM PERSIST	68	67	49	45	29	12	5	0	0	0	0	MAXIMUM PERSIST	60	46	44	38	16	7	1	0	0	0	0

Table 82. Frequency Distribution of the Number of Consecutive Hourly 19-foot Wind Speeds (mph) above Indicated Values When the Wind Direction Is between 276 and 5 degrees. 19-foot Level

19-FOOT LEVEL MAY 1950-1964												19-FOOT LEVEL JUNE 1950-1964											
NUMBER OF HOURS	WIND SPEED (MPH)											NUMBER OF HOURS	WIND SPEED (MPH)										
	CALM	3	5	10	15	20	25	30	35	40	MISSING		CALM	3	5	10	15	20	25	30	35	40	MISSING
1	190	169	166	95	34	12	0	0	0	0	3	1	226	182	156	67	23	4	0	0	0	0	0
2	79	78	75	38	11	3	0	0	0	0	0	2	76	62	56	22	3	0	0	0	0	0	0
3	51	45	39	18	3	0	0	0	0	0	0	3	37	35	24	11	3	1	0	0	0	0	0
4	17	13	13	12	3	0	0	0	0	0	0	4	34	33	17	6	1	0	0	0	0	0	0
5	16	19	11	4	2	0	0	0	0	0	0	5	24	11	14	5	1	0	0	0	0	0	0
6	21	14	14	6	0	0	0	0	0	0	0	6	16	14	6	2	0	0	0	0	0	0	0
7	9	11	6	5	1	0	0	0	0	0	0	7	13	13	14	0	0	0	0	0	0	0	0
8	9	8	13	3	0	0	0	0	0	0	0	8	8	8	2	2	1	0	0	0	0	0	0
9	12	12	8	3	2	0	0	0	0	0	0	9	3	2	5	1	0	0	0	0	0	0	0
10	11	8	7	2	0	0	0	0	0	0	0	10	5	4	4	2	0	0	0	0	0	0	0
11	1	0	1	1	0	0	0	0	0	0	0	11	6	3	4	1	0	0	0	0	0	0	0
12	2	3	4	2	0	0	0	0	0	0	0	12	4	5	4	0	0	0	0	0	0	0	0
13	4	5	3	0	0	0	0	0	0	0	0	13	4	1	2	0	0	0	0	0	0	0	0
14	6	4	2	0	0	0	0	0	0	0	0	14	1	3	2	0	0	0	0	0	0	0	0
15	1	1	2	0	0	0	0	0	0	0	0	15	1	5	0	0	0	0	0	0	0	0	0
16	1	1	1	0	0	0	0	0	0	0	0	16	4	2	2	1	0	0	0	0	0	0	0
17	2	2	1	1	0	0	0	0	0	0	0	17	3	1	0	0	0	0	0	0	0	0	0
18	4	2	1	0	0	0	0	0	0	0	0	18	3	4	1	0	0	0	0	0	0	0	0
19	2	1	2	0	0	0	0	0	0	0	0	19	3	1	0	0	0	0	0	0	0	0	0
20-24	7	7	2	1	0	0	0	0	0	0	0	20-24	4	4	2	0	0	0	0	0	0	0	0
25-29	0	0	0	0	0	0	0	0	0	0	0	25-29	2	2	1	0	0	0	0	0	0	0	0
30-34	1	1	0	0	0	0	0	0	0	0	0	30-34	0	0	0	0	0	0	0	0	0	0	0
35-39	2	2	2	0	0	0	0	0	0	0	0	35-39	1	0	0	0	0	0	0	0	0	0	0
40-44	0	0	0	0	0	0	0	0	0	0	0	40-44	0	0	0	0	0	0	0	0	0	0	0
45-49	0	0	0	0	0	0	0	0	0	0	0	45-49	1	0	0	0	0	0	0	0	0	0	0
50-59	0	0	0	0	0	0	0	0	0	0	0	50-59	0	0	0	0	0	0	0	0	0	0	0
60-69	0	0	0	0	0	0	0	0	0	0	0	60-69	0	0	0	0	0	0	0	0	0	0	0
70-79	0	0	0	0	0	0	0	0	0	0	0	70-79	0	0	0	0	0	0	0	0	0	0	0
80-89	0	0	0	0	0	0	0	0	0	0	0	80-89	0	0	0	0	0	0	0	0	0	0	0
90-99	0	0	0	0	0	0	0	0	0	0	0	90-99	0	0	0	0	0	0	0	0	0	0	0
≥100	0	0	0	0	0	0	0	0	0	0	0	≥100	0	0	0	0	0	0	0	0	0	0	0
MAXIMUM PERSIST	37	37	37	20	9	2	0	0	0	0	1	MAXIMUM PERSIST	44	27	26	16	8	3	0	0	0	0	0

19-FOOT LEVEL JULY 1950-1964												19-FOOT LEVEL AUGUST 1950-1964											
NUMBER OF HOURS	WIND SPEED (MPH)											NUMBER OF HOURS	WIND SPEED (MPH)										
	CALM	3	5	10	15	20	25	30	35	40	MISSING		CALM	3	5	10	15	20	25	30	35	40	MISSING
1	227	208	169	58	13	3	0	0	0	0	1	1	243	209	161	38	5	0	0	0	0	0	0
2	86	63	59	9	1	0	0	0	0	0	0	2	109	84	44	20	2	0	0	0	0	0	0
3	44	42	26	8	1	0	0	0	0	0	0	3	35	32	24	8	0	0	0	0	0	0	0
4	32	31	16	8	0	0	0	0	0	0	0	4	29	20	29	10	0	0	0	0	0	0	0
5	24	23	14	0	0	0	0	0	0	0	0	5	18	28	17	1	0	0	0	0	0	0	0
6	23	17	13	1	0	0	0	0	0	0	0	6	23	23	17	1	0	0	0	0	0	0	0
7	12	8	8	2	0	0	0	0	0	0	0	7	13	14	10	1	0	0	0	0	0	0	0
8	11	11	7	3	0	0	0	0	0	0	0	8	7	7	6	1	0	0	0	0	0	0	0
9	6	1	4	3	0	0	0	0	0	0	0	9	8	5	3	1	0	0	0	0	0	0	0
10	5	6	6	2	0	0	0	0	0	0	0	10	11	9	5	0	0	0	0	0	0	0	0
11	7	6	1	0	0	0	0	0	0	0	0	11	4	6	4	0	0	0	0	0	0	0	0
12	7	4	3	0	0	0	0	0	0	0	0	12	4	2	2	0	0	0	0	0	0	0	0
13	2	3	2	0	0	0	0	0	0	0	0	13	5	2	1	0	0	0	0	0	0	0	0
14	4	5	6	0	0	0	0	0	0	0	0	14	3	3	3	0	0	0	0	0	0	0	0
15	4	3	4	0	0	0	0	0	0	0	0	15	5	2	0	0	0	0	0	0	0	0	0
16	2	1	0	0	0	0	0	0	0	0	0	16	1	4	1	0	0	0	0	0	0	0	0
17	2	3	0	0	0	0	0	0	0	0	0	17	3	0	0	0	0	0	0	0	0	0	0
18	5	3	0	0	0	0	0	0	0	0	0	18	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	19	0	1	1	0	0	0	0	0	0	0	0
20-24	4	1	2	0	0	0	0	0	0	0	0	20-24	11	7	2	0	0	0	0	0	0	0	0
25-29	2	1	0	0	0	0	0	0	0	0	0	25-29	2	3	0	0	0	0	0	0	0	0	0
30-34	0	0	0	0	0	0	0	0	0	0	0	30-34	4	0	0	0	0	0	0	0	0	0	0
35-39	3	2	0	0	0	0	0	0	0	0	0	35-39	1	0	0	0	0	0	0	0	0	0	0
40-44	0	0	0	0	0	0	0	0	0	0	0	40-44	0	0	0	0	0	0	0	0	0	0	0
45-49	0	0	0	0	0	0	0	0	0	0	0	45-49	0	0	0	0	0	0	0	0	0	0	0
50-59	0	0	0	0	0	0	0	0	0	0	0	50-59	0	0	0	0	0	0	0	0	0	0	0
60-69	0	0	0	0	0	0	0	0	0	0	0	60-69	0	0	0	0	0	0	0	0	0	0	0
70-79	0	0	0	0	0	0	0	0	0	0	0	70-79	0	0	0	0	0	0	0	0	0	0	0
80-89	0	0	0	0	0	0	0	0	0	0	0	80-89	0	0	0	0	0	0	0	0	0	0	0
90-99	0	0	0	0	0	0	0	0	0	0	0	90-99	0	0	0	0	0	0	0	0	0	0	0
≥100	0	0	0	0	0	0	0	0	0	0	0	≥100	0	0	0	0	0	0	0	0	0	0	0
MAXIMUM PERSIST	39	38	22	10	3	1	0	0	0	0	1	MAXIMUM PERSIST	36	27	21	9	2	0	0	0	0	0	0

Table 83. Frequency Distribution of the Number of Consecutive Hourly 19-foot Wind Speeds (mph) above Indicated Values When the Wind Direction Is between 276 and 5 degrees. 19-foot Level

19-FOOT LEVEL SEPTEMBER 1950-1964											19-FOOT LEVEL OCTOBER 1950-1964												
NUMBER OF HOURS	WIND SPEED (MPH)										MISSING	NUMBER OF HOURS	WIND SPEED (MPH)										MISSING
	CALM	3	5	10	15	20	25	30	35	40			CALM	3	5	10	15	20	25	30	35	40	
1	180	181	159	66	19	4	0	0	0	0	0	1	157	156	135	90	25	5	0	0	0	0	2
2	75	79	79	17	3	0	0	0	0	0	0	2	74	64	59	28	7	0	0	0	0	0	0
3	40	47	25	18	2	1	0	0	0	0	0	3	33	34	38	23	1	1	0	0	0	0	0
4	35	32	31	7	0	0	0	0	0	0	0	4	19	20	19	10	4	0	0	0	0	0	0
5	24	20	21	1	1	0	0	0	0	0	0	5	17	24	14	7	4	0	0	0	0	0	0
6	18	17	11	6	0	0	0	0	0	0	0	6	19	13	10	6	3	1	0	0	0	0	0
7	14	10	10	1	1	0	0	0	0	0	0	7	6	8	4	3	1	0	0	0	0	0	0
8	11	11	6	5	0	0	0	0	0	0	0	8	9	8	8	9	0	0	0	0	0	0	0
9	10	6	10	2	0	0	0	0	0	0	0	9	9	8	13	3	1	0	0	0	0	0	0
10	7	6	4	3	0	0	0	0	0	0	0	10	14	9	9	2	0	0	0	0	0	0	0
11	3	4	4	0	1	0	0	0	0	0	0	11	5	6	5	3	0	0	0	0	0	0	0
12	7	4	4	0	0	0	0	0	0	0	0	12	1	3	2	3	1	0	0	0	0	0	0
13	4	3	2	1	0	0	0	0	0	0	0	13	4	5	4	3	1	0	0	0	0	0	0
14	5	3	2	1	0	0	0	0	0	0	0	14	1	6	6	0	0	0	0	0	0	0	0
15	2	4	2	0	0	0	0	0	0	0	0	15	10	3	2	2	0	0	0	0	0	0	0
16	3	2	2	0	0	0	0	0	0	0	0	16	7	5	3	1	0	0	0	0	0	0	0
17	5	6	3	0	0	0	0	0	0	0	0	17	5	4	5	1	0	0	0	0	0	0	0
18	2	1	1	0	0	0	0	0	0	0	0	18	3	2	5	0	0	0	0	0	0	0	0
19	2	3	1	1	0	0	0	0	0	0	0	19	2	1	2	1	0	0	0	0	0	0	0
20-24	7	8	1	0	0	0	0	0	0	0	0	20-24	9	12	11	0	1	0	0	0	0	0	0
25-29	4	3	0	0	0	0	0	0	0	0	0	25-29	10	4	3	0	0	0	0	0	0	0	0
30-34	4	2	0	0	0	0	0	0	0	0	0	30-34	5	5	1	1	0	0	0	0	0	0	0
35-39	2	0	0	0	0	0	0	0	0	0	0	35-39	7	9	4	0	0	0	0	0	0	0	0
40-44	2	1	1	0	0	0	0	0	0	0	0	40-44	3	2	0	0	0	0	0	0	0	0	0
45-49	1	0	0	0	0	0	0	0	0	0	0	45-49	3	1	1	0	0	0	0	0	0	0	0
50-59	0	0	0	0	0	0	0	0	0	0	0	50-59	1	1	0	0	0	0	0	0	0	0	0
60-69	0	0	0	0	0	0	0	0	0	0	0	60-69	0	0	0	0	0	0	0	0	0	0	0
70-79	0	0	0	0	0	0	0	0	0	0	0	70-79	1	0	0	0	0	0	0	0	0	0	0
80-89	0	0	0	0	0	0	0	0	0	0	0	80-89	0	0	0	0	0	0	0	0	0	0	0
90-99	0	0	0	0	0	0	0	0	0	0	0	90-99	0	0	0	0	0	0	0	0	0	0	0
≥100	0	0	0	0	0	0	0	0	0	0	0	≥100	0	0	0	0	0	0	0	0	0	0	0
MAXIMUM PERSIST	48	41	40	19	11	3	0	0	0	0	0	MAXIMUM PERSIST	79	53	47	31	21	3	0	0	0	0	1

19-FOOT LEVEL NOVEMBER 1950-1964											19-FOOT LEVEL DECEMBER 1950-1964												
NUMBER OF HOURS	WIND SPEED (MPH)										MISSING	NUMBER OF HOURS	WIND SPEED (MPH)										MISSING
	CALM	3	5	10	15	20	25	30	35	40			CALM	3	5	10	15	20	25	30	35	40	
1	131	138	136	83	43	9	0	0	0	0	0	1	163	163	169	102	43	10	0	0	0	0	0
2	43	53	44	33	21	5	2	0	0	0	0	2	80	79	62	38	19	1	0	0	0	0	0
3	43	38	44	22	17	0	0	0	0	0	0	3	40	36	44	28	4	1	0	0	0	0	0
4	37	21	18	17	9	0	1	0	0	0	0	4	22	25	27	18	4	0	0	0	0	0	0
5	8	13	17	11	5	0	0	0	0	0	0	5	17	19	18	12	4	0	0	0	0	0	0
6	14	13	12	8	4	0	0	0	0	0	0	6	9	17	12	8	4	0	0	0	0	0	0
7	14	15	12	11	3	0	0	0	0	0	0	7	15	14	14	6	3	0	0	0	0	0	0
8	10	9	9	4	0	0	0	0	0	0	0	8	10	12	13	6	1	0	0	0	0	0	0
9	6	9	3	7	1	0	0	0	0	0	0	9	7	10	10	9	0	0	0	0	0	0	0
10	14	9	6	7	1	1	0	0	0	0	0	10	6	4	8	5	1	0	0	0	0	0	0
11	6	7	7	3	0	0	0	0	0	0	0	11	13	9	8	1	0	0	0	0	0	0	0
12	4	4	6	1	2	0	0	0	0	0	0	12	8	5	3	0	0	0	0	0	0	0	0
13	7	6	5	4	0	0	0	0	0	0	0	13	8	7	4	2	0	0	0	0	0	0	0
14	9	8	7	3	0	0	0	0	0	0	0	14	9	4	5	1	0	0	0	0	0	0	0
15	6	3	3	1	0	1	0	0	0	0	0	15	5	4	4	4	0	0	0	0	0	0	0
16	3	4	3	2	0	0	0	0	0	0	0	16	2	3	5	0	0	0	0	0	0	0	0
17	4	4	4	6	0	0	0	0	0	0	0	17	5	3	3	0	0	0	0	0	0	0	0
18	2	1	4	1	0	0	0	0	0	0	0	18	3	3	1	1	1	0	0	0	0	0	0
19	8	8	4	0	0	0	0	0	0	0	0	19	4	2	6	1	0	0	0	0	0	0	0
20-24	13	13	15	3	0	0	0	0	0	0	0	20-24	17	23	12	5	0	0	0	0	0	0	0
25-29	9	7	4	1	0	0	0	0	0	0	0	25-29	10	7	6	0	0	0	0	0	0	0	0
30-34	7	9	2	0	0	0	0	0	0	0	0	30-34	10	7	4	3	0	0	0	0	0	0	0
35-39	1	1	2	0	0	0	0	0	0	0	0	35-39	2	1	2	0	0	0	0	0	0	0	0
40-44	2	0	1	0	0	0	0	0	0	0	0	40-44	1	2	1	0	0	0	0	0	0	0	0
45-49	4	3	1	0	1	0	0	0	0	0	0	45-49	2	2	1	0	0	0	0	0	0	0	0
50-59	0	0	1	1	0	0	0	0	0	0	0	50-59	3	1	3	0	0	0	0	0	0	0	0
60-69	1	2	1	0	0	0	0	0	0	0	0	60-69	1	1	1	0	0	0	0	0	0	0	0
70-79	1	0	0	0	0	0	0	0	0	0	0	70-79	0	0	0	0	0	0	0	0	0	0	0
80-89	0	0	0	0	0	0	0	0	0	0	0	80-89	1	1	0	0	0	0	0	0	0	0	0
90-99	1	1	1	0	0	0	0	0	0	0	0	90-99	1	1	0	0	0	0	0	0	0	0	0
≥100	0	0	0	0	0	0	0	0	0	0	0	≥100	0	0	0	0	0	0	0	0	0	0	0
MAXIMUM PERSIST	97	92	90	52	45	15	4	0	0	0	0	MAXIMUM PERSIST	92	92	61	34	18	3	0	0	0	0	0

Table 84. Frequency Distribution of the Number of Consecutive Hourly 19-foot Wind Speeds (mph) above Indicated Values When the Wind Direction Is within the Specified Quadrants. January 1950-December 1964. 19-foot Level

WIND DIRECTION IS BETWEEN 10 AND 90 DEGREES												WIND DIRECTION IS BETWEEN 100 AND 180 DEGREES											
19 FOOT LEVEL 1950-1964												19 FOOT LEVEL 1950-1964											
NUMBER OF HOURS	WIND SPEED (MPH)										MISSING	NUMBER OF HOURS	WIND SPEED (MPH)										MISSING
	CALM	3	5	10	15	20	25	30	35	40			CALM	3	5	10	15	20	25	30	35	40	
1	1608	1559	1383	676	247	57	4	0	0	0	2	1	2152	2054	1611	611	203	27	6	2	0	0	6
2	664	610	556	242	69	18	1	0	0	0	2	2	932	812	581	227	42	6	2	0	0	0	3
3	399	382	294	140	34	9	1	0	0	0	1	3	514	442	318	114	33	4	0	0	0	0	0
4	266	233	204	76	12	3	0	0	0	0	2	4	349	287	209	83	14	4	1	0	0	0	2
5	183	180	135	54	19	1	0	0	0	0	1	5	242	178	154	63	8	2	0	0	0	0	2
6	133	127	127	48	16	2	0	0	0	0	0	6	186	153	127	43	7	2	0	0	0	0	0
7	132	114	100	42	10	1	0	0	0	0	0	7	158	115	82	35	2	1	0	0	0	0	0
8	94	81	64	28	9	1	0	0	0	0	0	8	124	95	88	15	3	0	0	0	0	0	0
9	93	96	74	29	6	1	0	0	0	0	0	9	98	75	51	15	4	0	0	0	0	0	0
10	82	76	54	21	7	0	0	0	0	0	1	10	92	68	48	15	1	0	0	0	0	0	0
11	85	65	55	25	4	1	0	0	0	0	0	11	69	47	27	10	1	0	0	0	0	0	0
12	58	54	62	10	0	0	0	0	0	0	0	12	61	39	29	7	0	0	0	0	0	0	0
13	48	43	44	15	2	0	0	0	0	0	0	13	36	32	24	5	0	0	0	0	0	0	0
14	50	44	36	10	0	0	0	0	0	0	0	14	43	31	26	3	0	0	0	0	0	0	0
15	47	43	22	14	3	0	0	0	0	0	0	15	34	39	14	4	1	0	0	0	0	0	0
16	27	26	18	7	2	0	0	0	0	0	0	16	22	22	21	2	0	0	0	0	0	0	0
17	45	35	16	9	1	0	0	0	0	0	0	17	25	23	14	2	0	0	0	0	0	0	0
18	38	34	28	4	0	0	0	0	0	0	0	18	20	15	11	2	0	0	0	0	0	0	0
19	34	24	14	5	2	0	0	0	0	0	0	19	23	12	5	1	0	0	0	0	0	0	0
20-24	116	109	77	18	6	0	0	0	0	0	0	20-24	79	47	22	0	0	0	0	0	0	0	0
25-29	79	54	41	14	3	0	0	0	0	0	0	25-29	46	18	14	0	0	0	0	0	0	0	0
30-34	40	29	26	10	1	0	0	0	0	0	0	30-34	18	9	4	0	0	0	0	0	0	0	0
35-39	28	24	17	3	0	0	0	0	0	0	0	35-39	7	4	2	0	0	0	0	0	0	0	0
40-44	22	20	8	2	0	0	0	0	0	0	0	40-44	2	0	1	0	0	0	0	0	0	0	0
45-49	15	12	13	2	0	0	0	0	0	0	0	45-49	3	2	0	0	0	0	0	0	0	0	0
50-59	25	20	8	1	0	0	0	0	0	0	0	50-59	0	0	0	0	0	0	0	0	0	0	0
60-69	9	4	2	0	0	0	0	0	0	0	0	60-69	0	0	0	0	0	0	0	0	0	0	0
70-79	5	1	1	0	0	0	0	0	0	0	0	70-79	0	0	0	0	0	0	0	0	0	0	0
80-89	2	0	1	0	0	0	0	0	0	0	0	80-89	0	0	0	0	0	0	0	0	0	0	0
90-99	2	2	1	0	0	0	0	0	0	0	0	90-99	0	0	0	0	0	0	0	0	0	0	0
≥100	2	2	0	0	0	0	0	0	0	0	0	≥100	0	0	0	0	0	0	0	0	0	0	0
MAXIMUM PERSIST	117	117	99	50	33	11	3	0	0	0	10	MAXIMUM PERSIST	49	48	44	19	15	7	4	1	0	0	5

WIND DIRECTION IS BETWEEN 190 AND 270 DEGREES												WIND DIRECTION IS BETWEEN 280 AND 360 DEGREES											
19 FOOT LEVEL 1950-1964												19 FOOT LEVEL 1950-1964											
NUMBER OF HOURS	WIND SPEED (MPH)										MISSING	NUMBER OF HOURS	WIND SPEED (MPH)										MISSING
	CALM	3	5	10	15	20	25	30	35	40			CALM	3	5	10	15	20	25	30	35	40	
1	2105	2194	2095	1257	561	168	42	10	0	0	6	1	2103	2036	1877	972	405	123	12	0	0	0	11
2	916	952	855	466	226	58	12	0	0	0	4	2	883	814	711	372	144	26	6	0	0	0	0
3	497	478	476	284	109	16	4	0	0	0	1	3	484	465	403	241	80	14	1	0	0	0	0
4	367	401	336	207	76	13	3	0	0	0	0	4	332	296	266	159	48	6	1	0	0	0	0
5	279	281	263	180	60	14	4	0	0	0	0	5	224	236	203	81	33	6	1	0	0	0	0
6	276	266	223	149	44	11	4	0	0	0	0	6	209	189	147	76	24	2	0	0	0	0	0
7	199	204	189	119	25	4	1	0	0	0	1	7	131	133	111	66	18	3	0	0	0	0	0
8	179	182	173	96	28	3	2	0	0	0	0	8	129	123	106	67	10	0	0	0	0	0	0
9	186	169	150	75	18	3	1	0	0	0	1	9	96	89	97	52	14	0	0	0	0	0	0
10	136	142	131	58	13	3	0	0	0	0	0	10	114	94	85	42	11	1	0	0	0	0	0
11	111	109	98	49	10	1	1	0	0	0	0	11	78	72	64	25	2	0	0	0	0	0	0
12	91	89	82	28	8	0	0	0	0	0	0	12	62	53	52	21	10	1	0	0	0	0	0
13	98	93	72	23	5	2	0	0	0	0	0	13	60	48	42	24	4	0	0	0	0	0	0
14	72	78	73	35	5	3	0	0	0	0	0	14	58	51	50	19	1	0	0	0	0	0	0
15	84	86	65	23	2	1	0	0	0	0	0	15	54	51	35	14	2	1	0	0	0	0	0
16	70	61	62	17	5	1	0	0	0	0	0	16	51	46	37	15	1	0	0	0	0	0	1
17	55	46	51	7	3	0	0	0	0	0	0	17	40	31	27	11	0	0	0	0	0	0	0
18	53	50	30	19	2	1	0	0	0	0	0	18	40	41	36	7	2	0	0	0	0	0	0
19	66	50	36	13	1	0	0	0	0	0	0	19	35	28	26	5	0	0	0	0	0	0	0
20-24	209	171	138	36	10	2	0	0	0	0	0	20-24	124	114	84	19	3	0	0	0	0	0	0
25-29	124	111	63	16	6	0	0	0	0	0	0	25-29	72	55	33	8	1	0	0	0	0	0	0
30-34	91	63	40	21	1	0	0	0	0	0	0	30-34	52	44	19	7	0	0	0	0	0	0	0
35-39	56	44	36	3	0	0	0	0	0	0	0	35-39	34	28	21	3	1	0	0	0	0	0	0
40-44	35	29	10	3	0	0	0	0	0	0	0	40-44	21	19	14	2	0	0	0	0	0	0	0
45-49	24	18	16	1	0	0	0	0	0	0	0	45-49	18	13	9	1	1	0	0	0	0	0	0
50-59	35	19	12	0	0	0	0	0	0	0	0	50-59	12	6	5	2	0	0	0	0	0	0	0
60-69	16	17	8	0	0	0	0	0	0	0	0	60-69	5	6	3	0	0	0	0	0	0	0	0
70-79	8	7	3	0	0	0	0	0	0	0	0	70-79	4	2	0	0	0	0	0	0	0	0	0
80-89	6	2	1	0	0	0	0	0	0	0	0	80-89	2	1	0	0	0	0	0	0	0	0	0
90-99	2	0	0	0	0	0	0	0	0	0	0	90-99	3	3	2	0	0	0	0	0	0	0	0
≥100	2	0	0	0	0	0	0	0	0	0	0	≥100	0	0	0	0	0	0	0	0	0	0	0
MAXIMUM PERSIST	110	86	81	46	34	22	11	1	0	0	9	MAXIMUM PERSIST	97	95	93	56	45	15	5	0	0	0	16



Table 85. Percentage Frequency Distribution of Time of Daily Peak  
Wind Gust. January 1950-December 1964.  
Number of Daily Observations, 5,479

## 19-FOOT LEVEL 1950-1964

TIME	MONTH												TOTAL	CUMUL TOTAL
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
0001-0100	0.77	0.42	0.57	0.27	0.09	0.13	0.11	0.11	0.22	0.29	0.49	0.42	3.89	3.89
0101-0200	0.47	0.33	0.24	0.16	0.16	0.20	0.11	0.11	0.13	0.24	0.27	0.22	2.65	6.53
0201-0300	0.24	0.24	0.11	0.15	0.11	0.13	0.05	0.09	0.07	0.11	0.13	0.24	1.66	8.19
0301-0400	0.27	0.11	0.13	0.07	0.09	0.04	0.11	0.13	0.04	0.07	0.35	0.20	1.61	9.80
0401-0500	0.18	0.16	0.13	0.09	0.09	0.02	0.11	0.05	0.00	0.11	0.18	0.22	1.35	11.15
0501-0600	0.18	0.11	0.13	0.09	0.05	0.04	0.09	0.13	0.07	0.13	0.05	0.05	1.13	12.28
0601-0700	0.15	0.04	0.09	0.13	0.11	0.16	0.13	0.05	0.09	0.13	0.05	0.11	1.15	13.43
0701-0800	0.11	0.11	0.15	0.13	0.20	0.24	0.27	0.26	0.16	0.13	0.05	0.15	1.95	15.38
0801-0900	0.18	0.20	0.22	0.29	0.29	0.20	0.22	0.24	0.20	0.33	0.18	0.27	2.83	18.21
0901-1000	0.22	0.47	0.42	0.44	0.42	0.31	0.31	0.40	0.44	0.42	0.53	0.29	4.67	22.88
1000-1059	0.49	0.58	0.51	0.69	0.57	0.47	0.68	0.66	0.60	0.55	0.35	0.60	6.75	29.64
1100-1159	0.55	0.35	0.60	0.71	0.68	0.73	0.78	0.88	0.88	1.06	0.75	0.71	8.67	38.30
1200-1259	0.49	0.58	0.78	0.64	1.08	0.86	1.06	0.91	1.04	1.15	1.02	0.88	10.49	48.80
1300-1359	0.57	0.95	0.88	0.93	0.97	0.82	1.04	1.24	1.50	1.04	0.86	0.78	11.57	60.36
1400-1459	0.55	0.78	0.73	0.82	0.80	0.93	0.99	1.22	1.50	1.15	0.44	0.36	9.74	70.11
1500-1559	0.42	0.40	0.68	0.82	0.88	0.77	0.75	0.88	0.66	0.55	0.44	0.36	7.59	77.70
1600-1659	0.18	0.24	0.57	0.38	0.69	0.68	0.80	0.36	0.26	0.15	0.15	0.20	4.65	82.35
1700-1759	0.16	0.15	0.15	0.27	0.31	0.20	0.31	0.29	0.11	0.09	0.11	0.22	2.37	84.73
1800-1859	0.26	0.09	0.16	0.26	0.15	0.18	0.16	0.11	0.04	0.11	0.22	0.16	1.90	86.62
1900-1959	0.29	0.18	0.04	0.15	0.15	0.15	0.04	0.05	0.11	0.16	0.15	0.27	1.73	88.36
2000-2059	0.24	0.20	0.36	0.16	0.11	0.05	0.15	0.07	0.07	0.09	0.24	0.42	2.17	90.53
2100-2159	0.35	0.20	0.22	0.15	0.15	0.16	0.05	0.05	0.16	0.13	0.49	0.27	2.39	92.92
2200-2259	0.31	0.27	0.20	0.11	0.15	0.15	0.05	0.09	0.04	0.22	0.24	0.33	2.15	95.07
2300-2359	0.68	0.47	0.42	0.27	0.05	0.04	0.09	0.09	0.22	0.18	0.38	0.66	3.56	98.63
MISSING	0.20	0.09	0.02	0.02	0.15	0.57	0.02	0.00	0.15	0.04	0.05	0.07	1.37	100.00
TOTAL	8.50	7.74	8.49	8.21	8.49	8.21	8.49	8.49	8.21	8.49	8.21	8.49	100.00	

## 150-FOOT LEVEL 1950-1964

TIME	MONTH												TOTAL	CUMUL TOTAL
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
0001-0100	0.95	0.75	0.58	0.44	0.33	0.33	0.31	0.18	0.47	0.53	0.55	0.60	6.02	6.02
0101-0200	0.58	0.35	0.46	0.29	0.18	0.22	0.22	0.24	0.20	0.33	0.46	0.33	3.85	9.87
0201-0300	0.36	0.27	0.20	0.22	0.11	0.16	0.27	0.18	0.18	0.31	0.24	0.29	2.81	12.68
0301-0400	0.22	0.26	0.15	0.24	0.13	0.18	0.24	0.33	0.20	0.20	0.27	0.38	2.79	15.47
0401-0500	0.26	0.18	0.24	0.26	0.09	0.13	0.09	0.15	0.18	0.18	0.26	0.18	2.19	17.66
0501-0600	0.22	0.11	0.16	0.22	0.13	0.05	0.13	0.22	0.09	0.16	0.15	0.24	1.88	19.54
0601-0700	0.07	0.11	0.09	0.13	0.20	0.24	0.24	0.20	0.18	0.07	0.16	0.16	1.86	21.41
0701-0800	0.18	0.18	0.11	0.16	0.13	0.22	0.22	0.16	0.16	0.15	0.22	0.16	2.06	23.47
0801-0900	0.20	0.24	0.24	0.16	0.18	0.26	0.22	0.29	0.18	0.16	0.11	0.24	2.48	25.95
0901-1000	0.29	0.33	0.27	0.40	0.35	0.31	0.29	0.29	0.22	0.27	0.46	0.22	3.70	29.65
1000-1059	0.46	0.35	0.51	0.42	0.36	0.31	0.36	0.36	0.49	0.53	0.22	0.35	4.73	34.38
1100-1159	0.18	0.24	0.40	0.58	0.53	0.44	0.55	0.51	0.53	0.64	0.47	0.46	5.53	39.91
1200-1259	0.35	0.44	0.51	0.42	0.75	0.53	0.66	0.71	0.93	0.66	0.46	0.44	6.84	46.75
1300-1359	0.27	0.31	0.66	0.80	0.84	0.93	0.73	0.73	0.75	0.69	0.49	0.31	7.52	54.27
1400-1459	0.27	0.44	0.42	0.46	0.64	0.66	0.78	1.02	0.75	0.75	0.49	0.55	7.23	61.50
1500-1559	0.36	0.47	0.60	0.75	0.77	0.66	0.71	0.71	0.46	0.55	0.36	0.24	6.64	68.14
1600-1659	0.20	0.16	0.57	0.57	0.64	0.57	0.64	0.49	0.38	0.15	0.13	0.29	4.78	72.92
1700-1759	0.27	0.07	0.26	0.20	0.40	0.38	0.44	0.35	0.18	0.15	0.22	0.13	3.05	75.97
1800-1859	0.44	0.18	0.22	0.26	0.20	0.22	0.27	0.15	0.09	0.18	0.26	0.27	2.74	78.70
1900-1959	0.40	0.35	0.18	0.18	0.15	0.16	0.07	0.07	0.16	0.13	0.35	0.38	2.59	81.30
2000-2059	0.26	0.22	0.31	0.26	0.15	0.13	0.22	0.15	0.15	0.29	0.36	0.47	2.96	84.25
2100-2159	0.42	0.31	0.46	0.13	0.18	0.27	0.11	0.20	0.35	0.40	0.47	0.40	3.70	87.96
2200-2259	0.33	0.29	0.27	0.24	0.24	0.40	0.16	0.11	0.26	0.40	0.33	0.51	3.54	91.50
2300-2359	0.88	0.75	0.49	0.42	0.46	0.29	0.33	0.36	0.60	0.57	0.49	0.66	6.30	97.79
MISSING	0.07	0.38	0.13	0.02	0.36	0.16	0.22	0.31	0.04	0.04	0.24	0.22	2.19	99.98
TOTAL	8.50	7.74	8.49	8.21	8.49	8.21	8.49	8.49	8.21	8.49	8.21	8.49	100.00	

Table 86. Percentage Frequency Distribution of Daily Peak  
Gust Magnitude (mph). January 1950–December 1964.  
Number of Daily Observations, 5,479

## 19-FOOT LEVEL 1950-1964

WIND SPEED (MPH)	MONTH												TOTAL	CUMUL TOTAL	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC			
0-4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5-9	0.15	0.15	0.05	0.00	0.00	0.05	0.27	0.15	0.20	0.24	0.18	0.18	0.00	1.62	1.62
10-14	1.17	1.04	0.66	0.42	0.68	1.31	2.24	2.34	1.77	1.61	1.13	1.19	1.55	15.55	17.17
15-19	2.06	1.64	1.73	1.33	2.01	2.50	2.90	2.94	2.32	2.03	1.59	2.17	25.22	42.39	
20-24	1.81	2.26	1.97	2.28	2.35	1.77	1.68	1.88	2.26	2.45	2.14	2.39	25.24	67.63	
25-29	1.75	1.44	1.64	1.77	1.72	1.04	0.84	0.66	0.80	1.24	1.50	1.44	15.84	83.47	
30-34	0.88	0.58	1.26	1.37	0.82	0.57	0.22	0.36	0.42	0.73	0.84	0.66	8.70	92.17	
35-39	0.16	0.31	0.60	0.64	0.49	0.24	0.15	0.05	0.13	0.13	0.33	0.27	3.50	95.68	
40-44	0.22	0.16	0.31	0.27	0.15	0.05	0.04	0.05	0.15	0.02	0.27	0.07	1.77	97.45	
45-49	0.07	0.05	0.15	0.02	0.05	0.07	0.07	0.02	0.02	0.00	0.13	0.02	0.68	98.12	
50-54	0.04	0.00	0.05	0.05	0.04	0.02	0.04	0.04	0.00	0.02	0.04	0.00	0.33	98.45	
55-59	0.00	0.00	0.04	0.04	0.04	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.13	98.58	
60-64	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.00	0.00	0.00	0.00	0.02	0.05	98.63	
65-69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	98.63	
70-74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	98.63	
75-79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	98.63	
80-84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	98.63	
85-89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	98.63	
90-94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	98.63	
95-99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	98.63	
MISSING	0.20	0.09	0.02	0.02	0.15	0.57	0.02	0.00	0.15	0.04	0.05	0.07	1.37	100.00	
TOTAL	8.50	7.74	8.49	8.21	8.49	8.21	8.49	8.49	8.21	8.49	8.21	8.49	100.00		

## 150-FOOT LEVEL 1950-1964

WIND SPEED (MPH)	MONTH												TOTAL	CUMUL TOTAL
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
0-4	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02
5-9	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.02	0.02	0.02	0.02	0.00	0.02	0.13
10-14	0.24	0.26	0.20	0.11	0.05	0.42	1.02	0.88	0.51	0.64	0.33	0.29	4.95	5.07
15-19	1.30	0.91	1.17	0.77	1.09	1.64	2.37	2.50	1.88	1.44	0.99	1.00	17.06	22.14
20-24	1.86	1.77	1.46	1.37	1.93	2.17	1.95	2.10	2.19	2.15	1.41	1.90	22.26	44.40
25-29	1.72	1.46	1.31	1.66	1.61	1.42	1.31	1.37	1.59	1.86	1.82	2.08	19.22	63.61
30-34	1.57	1.42	1.46	1.70	1.42	0.88	0.86	0.57	0.99	1.06	1.51	1.51	14.95	78.56
35-39	0.91	0.82	1.06	0.93	1.02	0.71	0.27	0.36	0.42	0.69	0.71	0.77	8.69	87.24
40-44	0.38	0.33	0.80	0.80	0.40	0.42	0.15	0.16	0.24	0.36	0.49	0.31	4.85	92.10
45-49	0.22	0.15	0.38	0.51	0.38	0.11	0.07	0.07	0.13	0.16	0.26	0.27	2.72	94.82
50-54	0.11	0.16	0.26	0.20	0.13	0.11	0.13	0.07	0.13	0.04	0.16	0.07	1.57	96.39
55-59	0.07	0.04	0.13	0.04	0.02	0.07	0.05	0.04	0.05	0.00	0.18	0.00	0.69	97.08
60-64	0.04	0.02	0.07	0.05	0.00	0.04	0.02	0.02	0.02	0.00	0.04	0.02	0.33	97.41
65-69	0.02	0.02	0.04	0.02	0.04	0.00	0.02	0.00	0.02	0.02	0.02	0.00	0.20	97.61
70-74	0.00	0.00	0.02	0.02	0.00	0.00	0.00	0.02	0.00	0.00	0.02	0.00	0.07	97.68
75-79	0.00	0.00	0.00	0.00	0.02	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.05	97.74
80-84	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	97.77
85-89	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.02	0.00	0.04	97.81
90-94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	97.81
95-99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	97.81
MISSING	0.07	0.38	0.13	0.02	0.36	0.16	0.22	0.31	0.04	0.04	0.24	0.22	2.19	100.00
TOTAL	8.50	7.74	8.49	8.21	8.49	8.21	8.49	8.49	8.21	8.49	8.21	8.49	100.00	

Table 87. Maximum Daily Peak Wind Gust (mph) for Each Month and Year. January 1950-December 1964

19-FOOT LEVEL 1950-1964

YEAR	MONTH												ANNUAL
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1950	54	43	43	53	55	36	26	27	42	35	44	39	55
1951	41	43	45	39	37	36	45	32	40	33	43	62	62
1952	41	43	44	41	39	37	49	34	34	44	48	30	49
1953	44	47	47	44	45	48	38	28	35	31	37	43	48
1954	33	43	57	43	47	47	53	38	41	54	32	42	57
1955	34	31	50	37	52	34	32	52	38	34	46	39	52
1956	30	35	48	55	44	34	37	51	30	34	53	49	55
1957	40	46	51	38	35	37	64	27	35	28	45	37	64
1958	28	32	37	44	35	30	43	36	35	36	43	36	44
1959	34	34	50	39	50	36	46	43	48	39	40	25	50
1960	36	36	36	35	34	16	47	30	29	34	44	31	47
1961	33	37	59	40	38	37	36	42	40	37	40	39	59
1962	34	36	35	55	36	41	44	43	31	31	38	33	55
1963	32	38	46	51	40	51	38	48	32	31	46	39	51
1964	49	42	46	51	59	60	38	31	44	39	59	34	60
YEAR OF HIGHEST	1950	1953	1961	1962	1964	1964	1957	1955	1959	1954	1964	1951	1957

150-FOOT LEVEL 1950-1964

YEAR	MONTH												ANNUAL
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1950	65	51	55	61	69	50	35	37	53	43	55	51	69
1951	45	54	56	50	50	42	54	43	60	47	55	83	83
1952	52	51	52	43	50	44	75	46	53	50	74	36	75
1953	51	61	60	56	48	61	51	33	51	41	40	62	62
1954	39	69	67	53	53	59	55	53	46	66	40	54	69
1955	42	41	64	47	66	44	42	73	55	40	56	40	73
1956	34	46	58	74	52	37	44	61	37	43	58	53	74
1957	50	52	61	47	42	46	77	42	50	44	53	46	77
1958	37	40	39	54	41	37	59	45	44	44	55	47	59
1959	46	44	66	48	43	43	65	55	67	52	49	33	67
1960	46	46	53	50	51	52	60	48	40	47	56	46	60
1961	41	47	72	51	40	42	43	36	47	43	63	50	72
1962	40	51	49	81	48	55	57	57	41	46	54	46	81
1963	49	47	55	65	46	63	50	52	48	36	55	43	65
1964	57	50	54	62	75	86	53	51	57	46	85	41	86
YEAR OF HIGHEST	1950	1954	1961	1962	1964	1964	1957	1955	1959	1954	1964	1951	1964

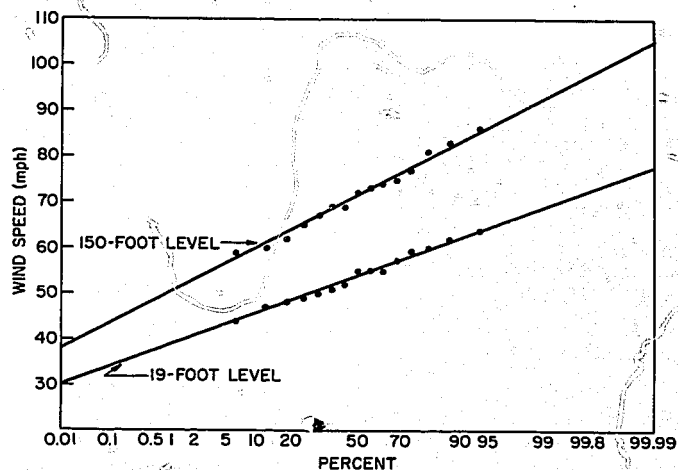


Figure 27  
Annual Peak Gusts (mph).  
January 1950-December 1964.  
19- and 150-foot Level

Table 88. Percentage Frequency Distribution of 2-hour Range of 19- and 150-foot Wind Speed (mph) Beginning with Indicated Hour. January 1950-December 1964. Number of Observations, 131,494

HOUR	19-FOOT WIND SPEED (MPH)														MISSING	TOTAL
	0.0 -0.9	1.0 -1.9	2.0 -2.9	3.0 -3.9	4.0 -4.9	5.0 -5.9	6.0 -6.9	7.0 -7.9	8.0 -8.9	9.0 -9.9	10.0 -11.9	12.0 -14.9	≥15.0			
1	0.506	1.168	1.116	0.639	0.366	0.156	0.106	0.031	0.022	0.014	0.013	0.010	0.001	0.018	4.167	
2	0.506	1.197	1.089	0.627	0.383	0.162	0.086	0.037	0.022	0.015	0.017	0.006	0.002	0.017	4.167	
3	0.473	1.195	1.161	0.616	0.370	0.159	0.086	0.039	0.027	0.009	0.009	0.005	0.002	0.017	4.167	
4	0.437	1.185	1.157	0.657	0.367	0.161	0.094	0.038	0.021	0.014	0.013	0.004	0.002	0.018	4.167	
5	0.383	1.008	1.091	0.735	0.478	0.220	0.131	0.052	0.023	0.012	0.011	0.003	0.002	0.018	4.167	
6	0.305	0.846	1.098	0.791	0.525	0.270	0.146	0.075	0.042	0.024	0.021	0.003	0.002	0.019	4.167	
7	0.262	0.807	1.100	0.799	0.523	0.294	0.170	0.094	0.050	0.024	0.015	0.007	0.002	0.024	4.167	
8	0.251	0.856	1.114	0.767	0.503	0.304	0.164	0.088	0.050	0.021	0.017	0.006	0.003	0.022	4.167	
9	0.301	0.926	1.121	0.791	0.469	0.252	0.146	0.059	0.037	0.017	0.017	0.005	0.005	0.021	4.167	
10	0.325	1.030	1.165	0.720	0.469	0.216	0.113	0.049	0.036	0.010	0.007	0.004	0.002	0.021	4.167	
11	0.357	1.084	1.163	0.722	0.443	0.187	0.091	0.044	0.027	0.011	0.007	0.008	0.002	0.020	4.167	
12	0.378	1.111	1.137	0.715	0.419	0.184	0.088	0.047	0.032	0.014	0.012	0.007	0.002	0.021	4.167	
13	0.335	1.068	1.149	0.724	0.438	0.192	0.117	0.046	0.038	0.016	0.013	0.008	0.004	0.019	4.167	
14	0.289	0.929	1.056	0.762	0.510	0.269	0.159	0.082	0.039	0.025	0.021	0.014	0.004	0.016	4.167	
15	0.204	0.700	1.010	0.786	0.597	0.363	0.244	0.102	0.063	0.031	0.033	0.012	0.007	0.014	4.167	
16	0.190	0.631	0.907	0.776	0.646	0.402	0.282	0.148	0.081	0.039	0.037	0.017	0.002	0.011	4.167	
17	0.249	0.706	0.973	0.725	0.611	0.351	0.234	0.119	0.081	0.045	0.039	0.019	0.003	0.012	4.167	
18	0.350	0.898	1.108	0.695	0.517	0.240	0.141	0.092	0.049	0.017	0.030	0.013	0.004	0.012	4.167	
19	0.440	1.067	1.123	0.625	0.418	0.204	0.119	0.070	0.031	0.023	0.018	0.009	0.006	0.014	4.167	
20	0.443	1.114	1.109	0.652	0.407	0.192	0.101	0.052	0.026	0.020	0.022	0.007	0.008	0.014	4.167	
21	0.456	1.152	1.099	0.659	0.377	0.182	0.093	0.049	0.030	0.015	0.026	0.010	0.003	0.016	4.167	
22	0.504	1.130	1.082	0.650	0.413	0.144	0.103	0.047	0.027	0.014	0.015	0.016	0.003	0.017	4.167	
23	0.508	1.086	1.154	0.637	0.385	0.161	0.094	0.046	0.030	0.017	0.016	0.009	0.004	0.021	4.166	
24	0.506	1.182	1.063	0.627	0.381	0.176	0.100	0.043	0.025	0.016	0.017	0.008	0.002	0.021	4.166	
TOTAL	8.956	24.070	26.345	16.897	11.016	5.441	3.207	1.548	0.898	0.464	0.448	0.208	0.075	0.427	100.00	

HOUR	150-FOOT WIND SPEED (MPH)														MISSING	TOTAL
	0.0 -0.9	1.0 -1.9	2.0 -2.9	3.0 -3.9	4.0 -4.9	5.0 -5.9	6.0 -6.9	7.0 -7.9	8.0 -8.9	9.0 -9.9	10.0 -11.9	12.0 -14.9	≥15.0			
1	0.284	0.825	0.995	0.720	0.567	0.272	0.193	0.109	0.052	0.040	0.053	0.021	0.009	0.026	4.167	
2	0.259	0.833	1.002	0.742	0.520	0.307	0.195	0.097	0.066	0.040	0.043	0.024	0.012	0.027	4.167	
3	0.257	0.866	0.964	0.751	0.513	0.301	0.188	0.102	0.081	0.037	0.047	0.020	0.011	0.030	4.167	
4	0.252	0.792	0.982	0.778	0.535	0.297	0.212	0.106	0.071	0.027	0.051	0.022	0.011	0.031	4.167	
5	0.189	0.681	0.929	0.757	0.602	0.364	0.256	0.137	0.087	0.047	0.056	0.020	0.011	0.033	4.167	
6	0.194	0.634	0.872	0.763	0.597	0.366	0.282	0.157	0.106	0.065	0.061	0.024	0.011	0.035	4.167	
7	0.173	0.595	0.884	0.754	0.624	0.392	0.290	0.148	0.113	0.055	0.060	0.027	0.011	0.040	4.167	
8	0.167	0.580	0.841	0.731	0.675	0.393	0.295	0.148	0.120	0.068	0.061	0.031	0.011	0.043	4.167	
9	0.193	0.605	0.837	0.751	0.637	0.408	0.287	0.154	0.111	0.043	0.057	0.027	0.016	0.040	4.167	
10	0.194	0.648	0.922	0.748	0.595	0.385	0.246	0.131	0.110	0.052	0.060	0.026	0.008	0.041	4.167	
11	0.191	0.721	0.907	0.743	0.598	0.351	0.248	0.143	0.093	0.049	0.044	0.027	0.013	0.040	4.167	
12	0.219	0.702	0.910	0.735	0.576	0.349	0.257	0.135	0.099	0.052	0.042	0.032	0.013	0.045	4.167	
13	0.219	0.673	0.945	0.760	0.543	0.360	0.227	0.135	0.096	0.063	0.059	0.024	0.017	0.046	4.167	
14	0.195	0.637	0.887	0.722	0.612	0.383	0.255	0.150	0.106	0.065	0.061	0.036	0.017	0.040	4.167	
15	0.179	0.611	0.836	0.727	0.604	0.380	0.300	0.182	0.125	0.062	0.064	0.037	0.028	0.033	4.167	
16	0.186	0.577	0.838	0.735	0.635	0.402	0.283	0.162	0.119	0.062	0.080	0.041	0.017	0.029	4.167	
17	0.190	0.596	0.866	0.761	0.521	0.391	0.266	0.158	0.116	0.056	0.062	0.036	0.023	0.024	4.167	
18	0.211	0.723	0.956	0.756	0.557	0.352	0.211	0.150	0.067	0.052	0.057	0.034	0.018	0.024	4.167	
19	0.243	0.776	0.953	0.740	0.565	0.283	0.210	0.128	0.084	0.044	0.059	0.027	0.021	0.025	4.167	
20	0.235	0.801	1.021	0.707	0.536	0.292	0.218	0.109	0.080	0.043	0.055	0.025	0.021	0.025	4.167	
21	0.251	0.790	1.053	0.729	0.488	0.309	0.195	0.113	0.078	0.042	0.046	0.028	0.020	0.025	4.167	
22	0.264	0.786	1.014	0.742	0.545	0.287	0.205	0.104	0.065	0.040	0.045	0.030	0.015	0.026	4.167	
23	0.265	0.811	0.999	0.738	0.512	0.270	0.201	0.125	0.078	0.045	0.056	0.023	0.016	0.027	4.166	
24	0.263	0.828	0.976	0.706	0.548	0.306	0.218	0.110	0.070	0.033	0.051	0.023	0.010	0.027	4.166	
TOTAL	5.273	17.091	22.397	17.798	13.805	8.200	5.736	3.191	2.192	1.183	1.327	0.664	0.360	0.782	100.00	

Table 89. Percentage Frequency Distribution of 11-hour Range of  
19- and 150-foot Wind Speed (mph) Beginning with Indicated  
Hour. January 1950-December 1964. Number of  
Observations, 131,485

HOUR	19-FOOT WIND SPEED (MPH)													MISSING	TOTAL
	0.0 -0.9	1.0 -1.9	2.0 -2.9	3.0 -3.9	4.0 -4.9	5.0 -5.9	6.0 -6.9	7.0 -7.9	8.0 -8.9	9.0 -9.9	10.0 -11.9	12.0 -14.9	≥15.0		
1	0.000	0.003	0.048	0.188	0.425	0.544	0.586	0.523	0.467	0.353	0.522	0.338	0.135	0.034	4.167
2	0.000	0.003	0.040	0.174	0.405	0.523	0.577	0.533	0.500	0.349	0.530	0.346	0.150	0.036	4.167
3	0.000	0.003	0.046	0.164	0.371	0.511	0.604	0.529	0.472	0.389	0.545	0.340	0.158	0.037	4.167
4	0.000	0.002	0.043	0.155	0.363	0.513	0.615	0.522	0.481	0.388	0.551	0.338	0.158	0.037	4.167
5	0.000	0.002	0.034	0.149	0.368	0.507	0.622	0.552	0.509	0.372	0.540	0.334	0.141	0.038	4.167
6	0.000	0.001	0.029	0.140	0.359	0.474	0.644	0.567	0.529	0.395	0.541	0.322	0.129	0.039	4.167
7	0.000	0.002	0.025	0.141	0.335	0.465	0.640	0.580	0.536	0.400	0.556	0.319	0.129	0.038	4.167
8	0.000	0.002	0.024	0.122	0.289	0.428	0.626	0.550	0.581	0.431	0.564	0.346	0.168	0.037	4.167
9	0.000	0.002	0.027	0.123	0.292	0.437	0.569	0.551	0.563	0.402	0.600	0.381	0.188	0.033	4.167
10	0.000	0.002	0.027	0.113	0.304	0.439	0.574	0.551	0.526	0.396	0.593	0.407	0.205	0.030	4.167
11	0.000	0.002	0.027	0.113	0.299	0.439	0.555	0.537	0.533	0.410	0.596	0.430	0.198	0.028	4.167
12	0.000	0.002	0.037	0.103	0.297	0.439	0.562	0.535	0.518	0.423	0.594	0.428	0.201	0.029	4.167
13	0.000	0.002	0.037	0.114	0.303	0.430	0.583	0.529	0.506	0.407	0.615	0.418	0.193	0.029	4.167
14	0.000	0.002	0.036	0.141	0.311	0.428	0.592	0.537	0.508	0.395	0.602	0.408	0.179	0.028	4.166
15	0.000	0.004	0.046	0.157	0.342	0.486	0.594	0.543	0.511	0.365	0.576	0.355	0.161	0.025	4.166
16	0.000	0.003	0.062	0.193	0.431	0.564	0.617	0.519	0.484	0.371	0.473	0.308	0.118	0.024	4.166
17	0.000	0.010	0.094	0.288	0.533	0.643	0.627	0.484	0.439	0.290	0.387	0.246	0.101	0.023	4.166
18	0.000	0.016	0.127	0.376	0.650	0.670	0.628	0.455	0.380	0.230	0.319	0.211	0.081	0.024	4.166
19	0.001	0.017	0.160	0.454	0.697	0.656	0.610	0.423	0.334	0.235	0.285	0.198	0.073	0.024	4.166
20	0.002	0.014	0.157	0.437	0.675	0.643	0.627	0.449	0.350	0.226	0.301	0.189	0.072	0.024	4.166
21	0.000	0.011	0.129	0.365	0.636	0.615	0.653	0.477	0.390	0.248	0.349	0.200	0.068	0.025	4.166
22	0.001	0.009	0.100	0.288	0.564	0.611	0.632	0.496	0.443	0.294	0.395	0.228	0.075	0.030	4.166
23	0.000	0.007	0.071	0.259	0.481	0.586	0.621	0.507	0.456	0.314	0.481	0.256	0.097	0.030	4.166
24	0.000	0.006	0.052	0.205	0.484	0.536	0.599	0.519	0.487	0.313	0.509	0.305	0.118	0.033	4.166
TOTAL	0.003	0.125	1.477	4.962	10.215	12.585	14.559	12.467	11.503	8.396	12.024	7.653	3.296	0.735	100.00

HOUR	150-FOOT WIND SPEED (MPH)													MISSING	TOTAL
	0.0 -0.9	1.0 -1.9	2.0 -2.9	3.0 -3.9	4.0 -4.9	5.0 -5.9	6.0 -6.9	7.0 -7.9	8.0 -8.9	9.0 -9.9	10.0 -11.9	12.0 -14.9	≥15.0		
1	0.000	0.000	0.010	0.063	0.192	0.322	0.445	0.462	0.511	0.410	0.697	0.611	0.389	0.056	4.167
2	0.000	0.000	0.009	0.057	0.182	0.308	0.435	0.472	0.510	0.389	0.710	0.627	0.408	0.059	4.167
3	0.000	0.000	0.008	0.067	0.147	0.305	0.427	0.456	0.516	0.423	0.684	0.634	0.436	0.065	4.167
4	0.000	0.000	0.008	0.062	0.143	0.305	0.424	0.450	0.507	0.412	0.696	0.641	0.451	0.068	4.167
5	0.000	0.000	0.011	0.051	0.145	0.307	0.412	0.436	0.522	0.428	0.665	0.656	0.466	0.068	4.167
6	0.000	0.001	0.013	0.052	0.153	0.284	0.410	0.444	0.517	0.443	0.659	0.665	0.457	0.068	4.167
7	0.000	0.001	0.012	0.061	0.136	0.290	0.438	0.425	0.519	0.422	0.670	0.660	0.465	0.068	4.167
8	0.000	0.000	0.011	0.058	0.148	0.292	0.410	0.430	0.527	0.425	0.688	0.617	0.494	0.067	4.167
9	0.000	0.000	0.008	0.064	0.179	0.293	0.411	0.449	0.508	0.418	0.672	0.615	0.490	0.059	4.167
10	0.000	0.000	0.008	0.070	0.188	0.291	0.458	0.429	0.534	0.405	0.653	0.604	0.470	0.059	4.167
11	0.000	0.000	0.008	0.071	0.183	0.332	0.451	0.443	0.501	0.398	0.664	0.599	0.462	0.053	4.167
12	0.000	0.000	0.005	0.072	0.211	0.341	0.441	0.442	0.492	0.425	0.641	0.589	0.456	0.052	4.167
13	0.000	0.001	0.010	0.077	0.218	0.329	0.437	0.462	0.490	0.410	0.639	0.580	0.463	0.052	4.167
14	0.000	0.002	0.010	0.075	0.225	0.324	0.418	0.503	0.470	0.416	0.634	0.590	0.453	0.047	4.166
15	0.000	0.002	0.017	0.076	0.234	0.332	0.475	0.472	0.492	0.370	0.671	0.552	0.433	0.040	4.166
16	0.000	0.001	0.021	0.097	0.271	0.351	0.491	0.480	0.491	0.372	0.637	0.540	0.381	0.035	4.166
17	0.000	0.003	0.024	0.111	0.302	0.378	0.545	0.476	0.464	0.366	0.605	0.510	0.350	0.032	4.166
18	0.000	0.002	0.027	0.129	0.328	0.414	0.559	0.491	0.449	0.364	0.580	0.459	0.331	0.033	4.166
19	0.000	0.002	0.033	0.134	0.349	0.440	0.575	0.488	0.449	0.325	0.569	0.451	0.317	0.034	4.166
20	0.000	0.002	0.033	0.114	0.330	0.413	0.545	0.507	0.472	0.342	0.586	0.488	0.300	0.036	4.166
21	0.000	0.002	0.021	0.103	0.299	0.383	0.497	0.519	0.513	0.375	0.586	0.529	0.302	0.037	4.166
22	0.000	0.002	0.021	0.074	0.260	0.361	0.497	0.529	0.500	0.386	0.643	0.529	0.322	0.042	4.166
23	0.000	0.002	0.013	0.077	0.238	0.366	0.461	0.475	0.501	0.388	0.672	0.589	0.338	0.047	4.166
24	0.000	0.001	0.010	0.071	0.211	0.333	0.444	0.491	0.479	0.419	0.703	0.591	0.359	0.054	4.166
TOTAL	0.000	0.021	0.350	1.885	5.272	8.094	11.108	11.232	11.935	9.531	15.622	13.926	9.794	1.231	100.00

Table 90. Percentage Frequency Distribution of 23-hour Range of 19- and 150-foot Wind Speed (mph) Beginning with Indicated Hour. January 1950-December 1964. Number of Observations, 131,473

HOUR	19-FOOT WIND SPEED (MPH)													MISSING	TOTAL
	0.0 -0.9	1.0 -1.9	2.0 -2.9	3.0 -3.9	4.0 -4.9	5.0 -5.9	6.0 -6.9	7.0 -7.9	8.0 -8.9	9.0 -9.9	10.0 -11.9	12.0 -14.9	≥15.0		
1	0.000	0.000	0.002	0.012	0.046	0.164	0.287	0.388	0.496	0.450	0.896	0.804	0.576	0.047	4.167
2	0.000	0.000	0.002	0.012	0.046	0.153	0.294	0.383	0.503	0.447	0.895	0.802	0.580	0.049	4.167
3	0.000	0.000	0.002	0.011	0.043	0.149	0.297	0.381	0.488	0.456	0.905	0.813	0.571	0.049	4.167
4	0.000	0.000	0.002	0.012	0.044	0.148	0.284	0.381	0.491	0.461	0.911	0.814	0.568	0.049	4.167
5	0.000	0.000	0.002	0.011	0.046	0.154	0.284	0.377	0.490	0.464	0.901	0.834	0.556	0.049	4.167
6	0.000	0.000	0.002	0.010	0.049	0.151	0.277	0.381	0.487	0.488	0.892	0.831	0.549	0.050	4.167
7	0.000	0.000	0.002	0.009	0.053	0.151	0.288	0.382	0.476	0.496	0.882	0.828	0.549	0.050	4.167
8	0.000	0.000	0.001	0.011	0.056	0.148	0.288	0.391	0.479	0.488	0.891	0.819	0.548	0.048	4.167
9	0.000	0.000	0.001	0.008	0.054	0.144	0.275	0.387	0.494	0.474	0.912	0.833	0.542	0.044	4.167
10	0.000	0.000	0.001	0.008	0.046	0.130	0.273	0.356	0.506	0.462	0.929	0.871	0.539	0.046	4.167
11	0.000	0.000	0.000	0.007	0.034	0.116	0.263	0.320	0.504	0.462	0.941	0.915	0.560	0.044	4.167
12	0.000	0.000	0.002	0.005	0.033	0.105	0.249	0.315	0.470	0.456	0.961	0.939	0.586	0.046	4.167
13	0.000	0.000	0.001	0.005	0.034	0.098	0.245	0.312	0.445	0.461	0.961	0.960	0.596	0.049	4.167
14	0.000	0.000	0.000	0.007	0.037	0.098	0.241	0.318	0.436	0.475	0.948	0.950	0.609	0.047	4.167
15	0.000	0.000	0.000	0.011	0.037	0.105	0.249	0.334	0.444	0.468	0.949	0.921	0.602	0.046	4.167
16	0.000	0.000	0.001	0.010	0.040	0.119	0.263	0.364	0.463	0.481	0.926	0.885	0.571	0.043	4.167
17	0.000	0.000	0.001	0.013	0.055	0.128	0.305	0.396	0.490	0.462	0.881	0.839	0.554	0.044	4.167
18	0.000	0.000	0.001	0.016	0.059	0.144	0.311	0.411	0.500	0.446	0.864	0.815	0.554	0.045	4.167
19	0.000	0.000	0.000	0.014	0.059	0.148	0.315	0.404	0.489	0.448	0.856	0.818	0.572	0.045	4.167
20	0.000	0.000	0.001	0.014	0.057	0.141	0.312	0.380	0.504	0.447	0.885	0.795	0.586	0.046	4.167
21	0.000	0.000	0.002	0.011	0.062	0.150	0.295	0.377	0.495	0.459	0.870	0.820	0.580	0.046	4.167
22	0.000	0.000	0.002	0.011	0.056	0.160	0.292	0.384	0.496	0.452	0.860	0.825	0.583	0.046	4.167
23	0.000	0.000	0.002	0.013	0.053	0.157	0.276	0.401	0.494	0.455	0.869	0.824	0.576	0.046	4.167
24	0.000	0.000	0.002	0.013	0.048	0.161	0.286	0.393	0.496	0.451	0.882	0.808	0.578	0.048	4.167
TOTAL	0.000	0.000	0.032	0.255	1.148	3.322	6.750	8.914	11.635	11.109	21.665	20.361	13.685	1.124	100.00

HOUR	150-FOOT WIND SPEED (MPH)													MISSING	TOTAL
	0.0 -0.9	1.0 -1.9	2.0 -2.9	3.0 -3.9	4.0 -4.9	5.0 -5.9	6.0 -6.9	7.0 -7.9	8.0 -8.9	9.0 -9.9	10.0 -11.9	12.0 -14.9	≥15.0		
1	0.000	0.000	0.000	0.001	0.014	0.038	0.116	0.184	0.299	0.370	0.751	1.050	1.273	0.073	4.167
2	0.000	0.000	0.000	0.001	0.011	0.040	0.110	0.178	0.307	0.362	0.760	1.034	1.292	0.074	4.167
3	0.000	0.000	0.000	0.002	0.012	0.036	0.110	0.176	0.313	0.355	0.763	1.042	1.285	0.074	4.167
4	0.000	0.000	0.000	0.002	0.010	0.036	0.110	0.178	0.306	0.355	0.789	1.014	1.294	0.074	4.167
5	0.000	0.000	0.000	0.002	0.011	0.031	0.118	0.177	0.301	0.376	0.756	1.020	1.301	0.075	4.167
6	0.000	0.000	0.000	0.002	0.011	0.025	0.123	0.190	0.291	0.372	0.763	1.015	1.298	0.077	4.167
7	0.000	0.000	0.000	0.002	0.009	0.030	0.119	0.186	0.311	0.342	0.765	1.012	1.311	0.078	4.167
8	0.000	0.000	0.000	0.002	0.011	0.035	0.116	0.175	0.308	0.337	0.764	1.020	1.320	0.078	4.167
9	0.000	0.000	0.000	0.002	0.009	0.037	0.111	0.184	0.294	0.348	0.763	1.022	1.325	0.072	4.167
10	0.000	0.000	0.000	0.001	0.013	0.033	0.107	0.183	0.262	0.361	0.766	1.018	1.346	0.076	4.167
11	0.000	0.000	0.000	0.001	0.014	0.034	0.107	0.168	0.261	0.330	0.744	1.056	1.376	0.075	4.167
12	0.000	0.000	0.000	0.000	0.011	0.034	0.094	0.165	0.267	0.325	0.713	1.056	1.422	0.079	4.167
13	0.000	0.000	0.000	0.000	0.008	0.030	0.095	0.164	0.278	0.319	0.711	1.027	1.454	0.081	4.167
14	0.000	0.000	0.000	0.000	0.009	0.031	0.086	0.165	0.275	0.313	0.710	1.041	1.460	0.078	4.167
15	0.000	0.000	0.000	0.001	0.008	0.033	0.091	0.164	0.268	0.328	0.732	1.023	1.443	0.077	4.167
16	0.000	0.000	0.000	0.001	0.006	0.035	0.100	0.181	0.263	0.335	0.756	0.995	1.419	0.075	4.167
17	0.000	0.000	0.000	0.001	0.005	0.033	0.115	0.178	0.277	0.342	0.764	1.015	1.365	0.072	4.167
18	0.000	0.000	0.000	0.000	0.011	0.037	0.108	0.193	0.295	0.345	0.775	1.012	1.320	0.071	4.167
19	0.000	0.000	0.000	0.001	0.010	0.040	0.115	0.199	0.303	0.332	0.777	1.003	1.315	0.071	4.167
20	0.000	0.000	0.000	0.001	0.011	0.040	0.116	0.192	0.303	0.340	0.775	1.018	1.300	0.071	4.167
21	0.000	0.000	0.000	0.001	0.010	0.041	0.113	0.192	0.298	0.331	0.764	1.062	1.284	0.071	4.167
22	0.000	0.000	0.000	0.001	0.011	0.042	0.111	0.202	0.308	0.319	0.768	1.053	1.279	0.072	4.167
23	0.000	0.000	0.000	0.001	0.011	0.042	0.116	0.194	0.305	0.339	0.744	1.063	1.279	0.072	4.167
24	0.000	0.000	0.000	0.001	0.013	0.037	0.117	0.187	0.302	0.353	0.761	1.052	1.271	0.073	4.167
TOTAL	0.000	0.000	0.000	0.023	0.250	0.850	2.623	4.354	6.996	8.227	18.134	24.724	32.031	1.789	100.00

Table 91. Percentage Frequency Distribution of p-values Based on  
19- and 75-foot Wind Speeds (mph) for Each Hour of the Day.  
January-February 1961-1964

19-FOOT TO 75-FOOT LEVEL JANUARY 1961-1964  
NUMBER OF OBSERVATIONS 2976

HOUR	VALUES OF P												MISSING	TOTAL
	.035	.05	.08	.11	.14	.17	.20	.25	.33	.45	.60	.676		
1	0.00	0.00	0.13	0.44	0.50	0.81	0.30	0.60	0.37	0.37	0.07	0.07	0.50	4.17
2	0.00	0.07	0.13	0.27	0.40	0.77	0.40	0.50	0.40	0.37	0.20	0.07	0.57	4.17
3	0.03	0.00	0.17	0.50	0.60	0.40	0.40	0.57	0.50	0.30	0.07	0.10	0.50	4.17
4	0.00	0.03	0.13	0.54	0.54	0.47	0.47	0.40	0.44	0.47	0.03	0.10	0.54	4.17
5	0.03	0.07	0.13	0.60	0.50	0.40	0.37	0.47	0.54	0.34	0.10	0.13	0.47	4.17
6	0.00	0.03	0.07	0.64	0.60	0.40	0.50	0.34	0.47	0.34	0.07	0.13	0.57	4.17
7	0.00	0.00	0.10	0.57	0.47	0.60	0.24	0.60	0.60	0.17	0.24	0.07	0.50	4.17
8	0.10	0.13	0.30	0.50	0.67	0.64	0.40	0.40	0.10	0.24	0.10	0.03	0.54	4.17
9	0.13	0.34	0.54	1.24	0.54	0.37	0.10	0.17	0.10	0.07	0.03	0.03	0.50	4.17
10	0.27	0.50	0.67	1.11	0.64	0.37	0.03	0.07	0.00	0.00	0.00	0.07	0.44	4.17
11	0.20	0.54	0.91	0.91	0.81	0.27	0.03	0.07	0.00	0.00	0.00	0.00	0.44	4.17
12	0.20	0.50	0.94	1.11	0.50	0.30	0.03	0.07	0.07	0.00	0.00	0.00	0.44	4.17
13	0.07	0.40	1.01	1.18	0.67	0.20	0.10	0.10	0.00	0.00	0.00	0.00	0.44	4.17
14	0.17	0.30	0.84	1.08	0.67	0.50	0.10	0.03	0.03	0.00	0.00	0.00	0.44	4.17
15	0.00	0.34	0.67	0.97	1.01	0.60	0.10	0.00	0.00	0.00	0.00	0.00	0.47	4.17
16	0.00	0.10	0.47	0.84	0.94	0.71	0.44	0.17	0.00	0.03	0.00	0.00	0.47	4.17
17	0.00	0.00	0.10	0.44	0.94	0.60	0.54	0.60	0.50	0.10	0.00	0.03	0.44	4.17
18	0.00	0.03	0.00	0.57	0.57	0.77	0.40	0.57	0.54	0.20	0.00	0.07	0.44	4.17
19	0.00	0.00	0.17	0.30	0.84	0.50	0.40	0.60	0.44	0.30	0.00	0.13	0.47	4.17
20	0.00	0.07	0.10	0.30	0.97	0.47	0.40	0.50	0.50	0.24	0.10	0.03	0.47	4.17
21	0.03	0.00	0.24	0.44	0.50	0.64	0.34	0.54	0.64	0.27	0.00	0.10	0.44	4.17
22	0.00	0.00	0.13	0.40	0.74	0.64	0.27	0.60	0.54	0.24	0.10	0.07	0.44	4.17
23	0.00	0.03	0.10	0.44	0.71	0.71	0.40	0.37	0.50	0.27	0.10	0.10	0.44	4.17
24	0.03	0.00	0.13	0.34	0.77	0.47	0.50	0.50	0.57	0.27	0.07	0.07	0.44	4.17
TOTAL	1.28	3.49	8.20	15.73	15.99	12.63	7.29	8.87	7.86	4.57	1.28	1.41	11.39	100.00

19-FOOT TO 75-FOOT LEVEL FEBRUARY 1961-1964  
NUMBER OF OBSERVATIONS 2712

HOUR	VALUES OF P												MISSING	TOTAL
	.035	.05	.08	.11	.14	.17	.20	.25	.33	.45	.60	.676		
1	0.04	0.07	0.11	0.66	0.44	0.33	0.22	0.55	0.55	0.37	0.04	0.22	0.55	4.17
2	0.04	0.04	0.04	0.41	0.74	0.55	0.18	0.55	0.59	0.29	0.15	0.15	0.44	4.17
3	0.00	0.04	0.18	0.48	0.55	0.33	0.26	0.63	0.55	0.41	0.18	0.11	0.44	4.17
4	0.04	0.04	0.15	0.59	0.37	0.41	0.11	0.46	0.52	0.41	0.18	0.11	0.41	4.17
5	0.04	0.07	0.18	0.44	0.55	0.22	0.29	0.41	0.66	0.52	0.11	0.29	0.37	4.17
6	0.04	0.04	0.18	0.52	0.33	0.37	0.52	0.55	0.66	0.41	0.04	0.11	0.41	4.17
7	0.07	0.00	0.11	0.55	0.77	0.37	0.37	0.55	0.41	0.29	0.07	0.15	0.44	4.17
8	0.04	0.15	0.44	0.85	0.66	0.37	0.37	0.44	0.22	0.07	0.04	0.11	0.41	4.17
9	0.44	0.26	0.96	1.33	0.44	0.18	0.11	0.04	0.04	0.04	0.00	0.04	0.29	4.17
10	0.29	0.55	0.85	1.33	0.52	0.15	0.00	0.07	0.04	0.00	0.00	0.07	0.29	4.17
11	0.18	0.63	1.11	1.14	0.48	0.11	0.04	0.07	0.04	0.00	0.04	0.04	0.29	4.17
12	0.29	0.55	1.33	1.14	0.37	0.04	0.07	0.04	0.00	0.00	0.00	0.00	0.29	4.17
13	0.15	0.63	0.92	1.44	0.55	0.15	0.04	0.00	0.00	0.00	0.00	0.00	0.29	4.17
14	0.18	0.37	1.36	1.18	0.52	0.15	0.07	0.00	0.00	0.00	0.00	0.00	0.29	4.17
15	0.11	0.44	1.14	1.00	0.74	0.41	0.04	0.00	0.00	0.00	0.00	0.00	0.29	4.17
16	0.11	0.22	0.85	1.11	0.92	0.26	0.22	0.07	0.04	0.00	0.00	0.04	0.33	4.17
17	0.00	0.15	0.29	0.74	0.92	0.63	0.33	0.33	0.22	0.07	0.07	0.07	0.33	4.17
18	0.00	0.11	0.07	0.48	0.59	0.74	0.41	0.55	0.44	0.29	0.00	0.07	0.41	4.17
19	0.04	0.07	0.22	0.22	0.66	0.59	0.33	0.63	0.33	0.44	0.07	0.18	0.37	4.17
20	0.04	0.04	0.15	0.48	0.66	0.41	0.18	0.63	0.48	0.44	0.15	0.15	0.37	4.17
21	0.00	0.04	0.18	0.44	0.70	0.33	0.22	0.59	0.52	0.48	0.04	0.22	0.41	4.17
22	0.04	0.04	0.11	0.29	0.74	0.63	0.18	0.59	0.41	0.44	0.15	0.15	0.41	4.17
23	0.04	0.00	0.15	0.48	0.48	0.52	0.37	0.52	0.52	0.26	0.18	0.18	0.48	4.17
24	0.04	0.04	0.22	0.44	0.44	0.26	0.33	0.70	0.63	0.37	0.18	0.11	0.41	4.17
TOTAL	2.25	4.57	11.32	17.77	14.16	8.48	5.27	9.18	7.85	5.60	1.70	2.77	9.07	100.00

Table 92. Percentage Frequency Distribution of p-values Based on  
19- and 75-foot Wind Speeds (mph) for Each Hour of the Day.  
March-April 1961-1964

19-FOOT TO 75-FOOT LEVEL MARCH 1961-1964														
NUMBER OF OBSERVATIONS 2976														
HOUR	VALUES OF P												MISSING	TOTAL
	.035	.05	.08	.11	.14	.17	.20	.25	.33	.45	.60	.676		
1	0.03	0.03	0.13	0.47	0.67	0.64	C.37	0.47	0.40	0.54	0.17	0.13	0.10	4.17
2	0.03	0.00	0.10	0.47	0.87	0.44	C.27	0.67	0.50	0.50	0.13	0.07	0.10	4.17
3	0.00	0.03	0.10	0.47	0.74	0.34	C.54	0.71	0.57	0.37	0.10	0.07	0.13	4.17
4	0.00	0.03	0.27	0.44	0.47	0.54	C.57	0.60	0.54	0.30	0.13	0.17	0.10	4.17
5	0.00	0.10	0.10	0.37	0.50	0.64	C.54	0.67	0.60	0.40	0.07	0.07	0.10	4.17
6	0.00	0.03	0.13	0.54	0.57	0.40	C.54	0.81	0.27	0.40	0.07	0.30	0.10	4.17
7	0.03	0.07	0.27	0.74	0.84	0.57	C.50	0.54	0.17	0.13	0.03	0.20	0.07	4.17
8	0.24	0.30	0.60	1.01	1.04	0.30	C.24	0.34	0.03	0.03	0.00	0.00	0.03	4.17
9	0.24	0.30	0.94	1.21	0.74	0.20	C.17	0.27	0.03	0.00	0.00	0.00	0.07	4.17
10	0.20	0.37	0.87	1.48	0.57	0.24	C.13	0.24	0.60	0.00	0.00	0.00	0.07	4.17
11	0.17	0.44	1.11	1.31	0.60	0.34	C.07	0.10	0.03	0.00	0.00	0.00	0.00	4.17
12	0.10	0.20	1.08	1.65	0.60	0.27	C.20	0.03	0.03	0.00	0.00	0.00	0.00	4.17
13	0.17	0.44	1.41	1.04	0.57	0.24	C.10	0.13	0.00	0.03	0.03	0.00	0.00	4.17
14	0.10	0.24	1.14	1.48	0.67	0.24	C.20	0.07	0.03	0.00	0.00	0.00	0.00	4.17
15	0.07	0.20	1.21	1.08	0.87	0.30	C.20	0.17	0.03	0.00	0.00	0.03	0.00	4.17
16	0.10	0.24	0.60	1.28	1.01	0.44	C.30	0.07	0.10	0.03	0.00	0.00	0.00	4.17
17	0.07	0.07	0.64	1.01	0.94	0.77	C.30	0.13	0.17	0.03	0.00	0.00	0.03	4.17
18	0.03	0.07	0.17	0.54	0.91	0.71	C.57	0.40	0.44	0.27	0.00	0.00	0.07	4.17
19	0.03	0.07	0.07	0.50	0.64	0.57	C.44	0.67	0.57	0.44	0.03	0.07	0.07	4.17
20	0.00	0.07	0.13	0.40	0.77	0.57	C.30	0.67	0.60	0.27	0.20	0.00	0.17	4.17
21	0.03	0.00	0.17	0.37	0.71	0.71	C.40	0.67	0.60	0.34	0.03	0.10	0.03	4.17
22	0.10	0.00	0.10	0.50	0.60	0.57	C.37	0.67	0.67	0.24	0.10	0.13	0.10	4.17
23	0.03	0.00	0.20	0.30	0.81	0.44	C.40	0.67	0.47	0.30	0.24	0.13	0.17	4.17
24	0.07	0.00	0.17	0.50	0.64	0.44	C.27	0.50	0.64	0.60	0.10	0.10	0.13	4.17
TOTAL	1.85	3.29	11.73	19.15	17.37	10.89	8.00	10.26	7.53	5.24	1.44	1.58	1.65	100.00

19-FOOT TO 75-FOOT LEVEL APRIL 1961-1964														
NUMBER OF OBSERVATIONS 2880														
HOUR	VALUES OF P												MISSING	TOTAL
	.035	.05	.08	.11	.14	.17	.20	.25	.33	.45	.60	.676		
1	0.03	0.03	0.10	0.35	0.56	0.80	C.35	0.63	0.73	0.28	0.14	0.07	0.10	4.17
2	0.03	0.07	0.10	0.31	0.49	0.59	C.42	0.87	0.52	0.45	0.07	0.21	0.03	4.17
3	0.03	0.03	0.07	0.42	0.63	0.66	C.42	0.59	0.52	0.59	0.03	0.14	0.03	4.17
4	0.00	0.00	0.14	0.38	0.83	0.49	C.49	0.59	0.59	0.35	0.17	0.10	0.03	4.17
5	0.00	0.00	0.10	0.28	0.56	0.59	C.66	0.66	0.49	0.35	0.21	0.21	0.07	4.17
6	0.00	0.00	0.17	0.31	0.80	0.66	C.45	0.59	0.45	0.35	0.14	0.17	0.07	4.17
7	0.10	0.21	0.83	0.80	0.90	0.66	C.38	0.07	0.03	0.07	0.00	0.07	0.03	4.17
8	0.17	0.35	1.28	1.01	0.76	0.45	C.03	0.07	0.00	0.00	0.00	0.03	0.00	4.17
9	0.07	0.66	1.22	0.94	0.73	0.45	C.07	0.00	0.03	0.00	0.00	0.00	0.00	4.17
10	0.14	0.52	1.15	1.35	0.63	0.28	C.07	0.03	0.00	0.00	0.00	0.00	0.00	4.17
11	0.17	0.52	1.18	1.28	0.73	0.14	C.10	0.03	0.00	0.00	0.00	0.00	0.00	4.17
12	0.14	0.42	1.35	1.39	0.69	0.10	C.03	0.03	0.00	0.00	0.00	0.00	0.00	4.17
13	0.14	0.52	1.32	1.49	0.52	0.10	C.00	0.07	0.00	0.00	0.00	0.00	0.00	4.17
14	0.21	0.38	0.90	1.60	0.56	0.42	C.03	0.07	0.00	0.00	0.00	0.00	0.00	4.17
15	0.07	0.17	1.11	1.46	0.73	0.31	C.17	0.10	0.00	0.00	0.00	0.03	0.00	4.17
16	0.07	0.17	0.69	1.60	0.69	0.69	C.21	0.00	0.03	0.00	0.00	0.00	0.00	4.17
17	0.00	0.07	0.56	0.97	1.35	0.76	C.31	0.10	0.00	0.00	0.00	0.00	0.03	4.17
18	0.00	0.07	0.10	0.56	1.04	0.69	C.73	0.66	0.21	0.03	0.00	0.03	0.03	4.17
19	0.00	0.00	0.07	0.31	0.73	0.52	C.63	0.87	0.49	0.45	0.03	0.07	0.00	4.17
20	0.00	0.00	0.14	0.21	0.56	0.59	C.45	0.56	0.90	0.49	0.03	0.21	0.03	4.17
21	0.00	0.00	0.14	0.31	0.35	0.63	C.49	0.73	0.56	0.56	0.14	0.17	0.10	4.17
22	0.07	0.00	0.17	0.24	0.45	0.56	C.31	0.69	0.80	0.45	0.17	0.24	0.00	4.17
23	0.00	0.00	0.17	0.24	0.45	0.69	C.35	0.52	0.87	0.49	0.14	0.07	0.17	4.17
24	0.00	0.00	0.10	0.24	0.59	0.63	C.52	0.59	0.52	0.59	0.24	0.10	0.03	4.17
TOTAL	1.46	4.20	13.19	18.06	16.32	12.47	7.67	9.13	7.74	5.49	1.53	1.94	0.80	100.00



Table 93. Percentage Frequency Distribution of p-values Based on  
19- and 75-foot Wind Speeds (mph) for Each Hour of the Day.  
May-June 1961-1964

19-FOOT TO 75-FOOT LEVEL		MAY 1961-1964												
NUMBER OF OBSERVATIONS		2976												
HOUR	VALUES OF P												MISSING	TOTAL
	.035	.05	.08	.11	.14	.17	.20	.25	.33	.45	.60	.676		
1	0.00	0.03	0.03	0.07	0.37	0.37	0.20	0.37	1.11	0.67	0.27	0.27	0.40	4.17
2	0.00	0.03	0.03	0.07	0.27	0.44	0.27	0.77	1.01	0.54	0.07	0.27	0.40	4.17
3	0.03	0.00	0.00	0.20	0.27	0.24	0.44	0.77	0.77	0.64	0.27	0.13	0.40	4.17
4	0.00	0.00	0.00	0.07	0.20	0.20	0.47	0.81	0.77	0.84	0.17	0.27	0.37	4.17
5	0.07	0.00	0.03	0.10	0.34	0.40	0.34	0.81	0.87	0.37	0.24	0.30	0.30	4.17
6	0.07	0.00	0.24	0.34	0.60	0.60	0.60	0.37	0.44	0.24	0.07	0.24	0.37	4.17
7	0.10	0.10	0.30	1.08	0.64	0.74	0.30	0.24	0.13	0.07	0.07	0.07	0.34	4.17
8	0.17	0.20	0.60	0.94	1.18	0.44	0.13	0.07	0.03	0.10	0.00	0.03	0.27	4.17
9	0.17	0.17	0.50	1.38	1.01	0.30	0.20	0.07	0.10	0.00	0.00	0.00	0.27	4.17
10	0.20	0.17	0.60	1.24	0.91	0.54	0.13	0.07	0.00	0.00	0.00	0.00	0.30	4.17
11	0.03	0.34	0.71	0.97	1.21	0.37	0.17	0.03	0.03	0.00	0.00	0.00	0.30	4.17
12	0.07	0.17	0.54	1.34	0.94	0.47	0.10	0.24	0.00	0.00	0.00	0.00	0.30	4.17
13	0.03	0.13	0.47	1.24	1.24	0.40	0.13	0.20	0.03	0.00	0.00	0.00	0.30	4.17
14	0.07	0.07	0.57	1.21	1.24	0.27	0.30	0.17	0.00	0.00	0.00	0.00	0.27	4.17
15	0.00	0.07	0.40	1.01	1.24	0.47	0.37	0.20	0.00	0.00	0.00	0.00	0.27	4.17
16	0.03	0.07	0.30	1.04	1.21	0.64	0.40	0.13	0.07	0.00	0.00	0.00	0.27	4.17
17	0.03	0.03	0.27	0.84	0.84	0.91	0.54	0.40	0.00	0.03	0.00	0.00	0.27	4.17
18	0.00	0.00	0.00	0.54	0.77	0.50	0.84	0.71	0.20	0.17	0.03	0.07	0.34	4.17
19	0.00	0.00	0.00	0.13	0.13	0.50	0.47	1.01	0.87	0.34	0.17	0.24	0.30	4.17
20	0.03	0.00	0.00	0.07	0.27	0.37	0.30	0.84	0.81	0.71	0.07	0.37	0.34	4.17
21	0.03	0.00	0.00	0.03	0.13	0.50	0.10	1.01	0.47	0.91	0.34	0.30	0.34	4.17
22	0.03	0.03	0.00	0.03	0.30	0.30	0.34	0.77	0.74	0.71	0.27	0.30	0.34	4.17
23	0.00	0.00	0.00	0.10	0.27	0.34	0.44	0.64	0.64	0.77	0.30	0.27	0.40	4.17
24	0.00	0.00	0.00	0.07	0.24	0.30	0.40	0.71	0.74	0.64	0.24	0.30	0.40	4.17
TOTAL	1.18	1.61	5.61	14.11	15.83	10.62	8.10	11.39	9.85	7.73	2.55	3.43	8.00	100.00

19-FOOT TO 75-FOOT LEVEL		JUNE 1961-1964												
NUMBER OF OBSERVATIONS		2880												
HOUR	VALUES OF P												MISSING	TOTAL
	.035	.05	.08	.11	.14	.17	.20	.25	.33	.45	.60	.676		
1	0.10	0.00	0.07	0.21	0.17	0.17	0.10	0.66	0.90	0.90	0.31	0.45	0.10	4.17
2	0.03	0.00	0.00	0.03	0.28	0.24	0.21	0.35	0.97	1.01	0.42	0.49	0.14	4.17
3	0.03	0.00	0.00	0.07	0.14	0.24	0.31	0.52	0.80	1.15	0.28	0.45	0.17	4.17
4	0.03	0.00	0.00	0.03	0.21	0.24	0.17	0.42	1.08	0.90	0.38	0.52	0.17	4.17
5	0.00	0.03	0.00	0.07	0.31	0.21	0.21	0.76	0.76	0.87	0.31	0.45	0.17	4.17
6	0.10	0.00	0.07	0.35	0.45	0.59	0.63	0.73	0.38	0.21	0.21	0.35	0.10	4.17
7	0.52	0.24	0.42	0.87	0.59	0.80	0.28	0.28	0.03	0.03	0.00	0.10	0.00	4.17
8	0.45	0.17	0.52	1.15	0.76	0.76	0.17	0.03	0.10	0.03	0.00	0.00	0.00	4.17
9	0.21	0.24	0.73	0.97	0.83	0.52	0.28	0.17	0.10	0.07	0.00	0.03	0.00	4.17
10	0.21	0.31	0.69	0.94	1.08	0.21	0.28	0.31	0.03	0.03	0.03	0.03	0.00	4.17
11	0.17	0.07	0.80	1.25	0.87	0.56	0.21	0.21	0.03	0.00	0.00	0.00	0.00	4.17
12	0.31	0.14	0.59	1.42	0.87	0.38	0.14	0.10	0.21	0.00	0.00	0.00	0.00	4.17
13	0.21	0.28	0.73	0.90	1.04	0.49	0.21	0.17	0.07	0.00	0.03	0.03	0.00	4.17
14	0.21	0.21	0.38	0.94	1.25	0.42	0.21	0.38	0.10	0.03	0.00	0.03	0.00	4.17
15	0.10	0.14	0.52	0.94	0.90	0.42	0.52	0.45	0.07	0.00	0.07	0.00	0.03	4.17
16	0.10	0.10	0.31	0.94	0.94	0.73	0.35	0.38	0.14	0.17	0.00	0.00	0.00	4.17
17	0.07	0.07	0.24	0.59	0.97	0.87	0.52	0.49	0.14	0.10	0.03	0.07	0.00	4.17
18	0.00	0.00	0.07	0.28	0.66	0.66	0.69	0.90	0.35	0.31	0.07	0.14	0.03	4.17
19	0.00	0.00	0.03	0.10	0.28	0.42	0.45	0.66	0.66	0.69	0.21	0.49	0.17	4.17
20	0.07	0.00	0.00	0.10	0.31	0.21	0.31	0.56	0.56	0.83	0.56	0.52	0.14	4.17
21	0.00	0.00	0.00	0.14	0.14	0.10	0.45	0.69	0.42	0.73	0.52	0.73	0.24	4.17
22	0.03	0.00	0.00	0.07	0.14	0.21	0.21	0.56	0.80	0.83	0.38	0.63	0.31	4.17
23	0.03	0.00	0.03	0.00	0.14	0.24	0.28	0.73	0.45	0.97	0.38	0.59	0.31	4.17
24	0.10	0.00	0.03	0.14	0.14	0.14	0.28	0.49	0.80	1.04	0.31	0.49	0.21	4.17
TOTAL	3.13	2.01	6.25	12.50	13.47	9.83	7.47	11.01	9.97	10.94	4.51	6.60	2.33	100.00

Table 94. Percentage Frequency Distribution of p-values Based on  
19- and 75-foot Wind Speeds (mph) for Each Hour of the Day.  
July-August 1961-1964

19-FOOT TO 75-FOOT LEVEL JULY 1961-1964														
NUMBER OF OBSERVATIONS 2976														
HOUR	VALUES OF P												MISSING	TOTAL
	.035	.05	.08	.11	.14	.17	.20	.25	.33	.45	.60	.676		
1	0.03	0.00	0.07	0.00	0.03	0.27	0.20	0.67	0.91	0.97	0.30	0.50	0.20	4.17
2	0.00	0.00	0.00	0.00	0.07	0.20	0.30	0.54	0.97	1.21	0.44	0.27	0.17	4.17
3	0.07	0.00	0.00	0.00	0.24	0.17	0.10	0.67	1.14	1.01	0.40	0.24	0.13	4.17
4	0.00	0.00	0.00	0.13	0.03	0.13	0.30	0.71	0.91	1.18	0.34	0.24	0.20	4.17
5	0.00	0.00	0.03	0.00	0.13	0.17	0.50	0.54	0.64	1.14	0.24	0.34	0.44	4.17
6	0.07	0.03	0.07	0.30	0.34	0.60	0.57	0.67	0.54	0.40	0.03	0.20	0.34	4.17
7	0.27	0.17	0.47	1.11	0.67	0.54	0.34	0.34	0.13	0.00	0.00	0.00	0.13	4.17
8	0.30	0.54	0.74	0.91	0.67	0.37	0.24	0.20	0.13	0.03	0.00	0.00	0.03	4.17
9	0.30	0.37	0.77	1.11	0.77	0.34	0.20	0.17	0.13	0.00	0.00	0.00	0.00	4.17
10	0.20	0.34	0.81	1.08	0.87	0.47	0.17	0.13	0.10	0.00	0.00	0.00	0.00	4.17
11	0.13	0.30	0.97	1.04	0.74	0.44	0.37	0.10	0.03	0.03	0.00	0.00	0.00	4.17
12	0.27	0.27	0.74	1.08	0.81	0.37	0.34	0.20	0.03	0.03	0.00	0.00	0.03	4.17
13	0.17	0.40	0.67	1.41	0.74	0.34	0.10	0.24	0.03	0.03	0.00	0.00	0.03	4.17
14	0.20	0.30	0.64	1.04	1.08	0.47	0.20	0.13	0.03	0.03	0.00	0.00	0.03	4.17
15	0.10	0.24	0.64	0.91	1.18	0.34	0.40	0.27	0.10	0.00	0.00	0.00	0.00	4.17
16	0.07	0.10	0.57	1.11	0.87	0.64	0.37	0.34	0.07	0.03	0.00	0.00	0.00	4.17
17	0.07	0.17	0.24	0.74	1.01	0.87	0.40	0.44	0.10	0.10	0.03	0.00	0.00	4.17
18	0.03	0.00	0.10	0.47	0.60	0.54	0.40	1.11	0.64	0.17	0.03	0.00	0.00	4.17
19	0.07	0.00	0.00	0.10	0.24	0.47	0.17	0.71	0.87	0.67	0.54	0.24	0.30	4.17
20	0.07	0.00	0.00	0.07	0.07	0.20	0.30	0.44	0.50	1.28	0.44	0.50	0.30	4.17
21	0.07	0.00	0.00	0.03	0.10	0.27	0.24	0.44	0.84	1.01	0.44	0.54	0.20	4.17
22	0.10	0.00	0.03	0.00	0.03	0.10	0.24	0.71	0.81	1.04	0.34	0.47	0.30	4.17
23	0.03	0.00	0.00	0.03	0.17	0.13	0.27	0.60	0.77	1.14	0.47	0.30	0.24	4.17
24	0.03	0.00	0.00	0.07	0.00	0.24	0.27	0.57	1.01	0.97	0.40	0.34	0.27	4.17
TOTAL	2.65	3.23	7.56	12.74	11.46	8.67	6.99	10.92	11.46	12.53	4.23	4.23	3.33	100.00

19-FOOT TO 75-FOOT LEVEL AUGUST 1961-1964														
NUMBER OF OBSERVATIONS 2976														
HOUR	VALUES OF P												MISSING	TOTAL
	.035	.05	.08	.11	.14	.17	.20	.25	.33	.45	.60	.676		
1	0.00	0.00	0.00	0.03	0.10	0.24	0.24	0.40	0.71	1.18	0.54	0.47	0.27	4.17
2	0.00	0.00	0.03	0.00	0.07	0.37	0.17	0.64	0.74	1.08	0.37	0.44	0.27	4.17
3	0.00	0.00	0.03	0.07	0.13	0.24	0.20	0.64	0.91	0.94	0.20	0.60	0.20	4.17
4	0.00	0.00	0.03	0.07	0.13	0.07	0.50	0.57	0.81	0.77	0.47	0.50	0.24	4.17
5	0.03	0.03	0.00	0.03	0.17	0.24	0.27	0.64	0.77	0.84	0.44	0.37	0.34	4.17
6	0.03	0.00	0.00	0.17	0.10	0.37	0.54	0.71	0.47	0.74	0.37	0.37	0.30	4.17
7	0.34	0.27	0.40	0.64	0.74	0.67	0.30	0.34	0.27	0.00	0.03	0.07	0.10	4.17
8	0.50	0.40	0.87	0.87	0.57	0.34	0.20	0.20	0.07	0.07	0.00	0.03	0.03	4.17
9	0.27	0.27	1.11	1.21	0.84	0.17	0.10	0.10	0.00	0.00	0.00	0.03	0.07	4.17
10	0.27	0.50	0.94	1.21	0.47	0.37	0.27	0.10	0.00	0.00	0.00	0.00	0.03	4.17
11	0.27	0.24	0.77	1.61	0.71	0.40	0.07	0.07	0.00	0.00	0.00	0.00	0.03	4.17
12	0.24	0.34	0.77	1.51	0.84	0.30	0.07	0.03	0.00	0.00	0.03	0.00	0.03	4.17
13	0.20	0.27	0.84	1.41	0.94	0.24	0.10	0.10	0.03	0.00	0.00	0.00	0.03	4.17
14	0.34	0.24	0.81	1.08	1.11	0.37	0.07	0.13	0.03	0.00	0.00	0.00	0.03	4.17
15	0.27	0.24	0.60	1.08	0.84	0.57	0.37	0.10	0.10	0.00	0.00	0.00	0.00	4.17
16	0.20	0.20	0.50	0.94	1.14	0.60	0.17	0.20	0.03	0.10	0.00	0.03	0.03	4.17
17	0.17	0.17	0.27	0.44	0.74	0.77	0.64	0.54	0.10	0.13	0.03	0.03	0.13	4.17
18	0.03	0.07	0.13	0.10	0.13	0.54	0.30	0.74	0.94	0.57	0.27	0.13	0.20	4.17
19	0.03	0.00	0.03	0.10	0.03	0.07	0.10	0.64	0.60	0.97	0.71	0.40	0.47	4.17
20	0.00	0.00	0.00	0.10	0.07	0.00	0.07	0.67	0.97	0.97	0.50	0.50	0.30	4.17
21	0.00	0.00	0.03	0.03	0.03	0.20	0.13	0.50	0.60	1.28	0.57	0.60	0.17	4.17
22	0.03	0.03	0.00	0.03	0.07	0.17	0.07	0.50	0.97	1.14	0.67	0.30	0.17	4.17
23	0.00	0.00	0.03	0.03	0.13	0.17	0.10	0.57	0.71	1.01	0.77	0.30	0.34	4.17
24	0.03	0.00	0.00	0.00	0.10	0.13	0.20	0.50	1.04	1.01	0.50	0.40	0.24	4.17
TOTAL	3.26	3.26	8.23	12.77	10.22	7.59	5.24	9.64	10.89	12.80	6.49	5.61	4.00	100.00

Table 95. Percentage Frequency Distribution of p-values Based on  
19- and 75-foot Wind Speeds (mph) for Each Hour of the Day.  
September-October 1961-1964

19-FOOT TO 75-FOOT LEVEL SEPTEMBER 1961-1964  
NUMBER OF OBSERVATIONS 2880

HOUR	VALUES OF P												MISSING	TOTAL
	.035	.05	.08	.11	.14	.17	.20	.25	.33	.45	.60	.676		
1	0.00	0.00	0.07	0.10	0.10	0.17	0.24	0.66	0.80	0.97	0.24	0.52	0.28	4.17
2	0.03	0.00	0.03	0.03	0.24	0.17	0.42	0.56	0.66	1.28	0.14	0.38	0.21	4.17
3	0.03	0.00	0.03	0.14	0.10	0.38	0.24	0.38	1.15	0.94	0.31	0.24	0.21	4.17
4	0.00	0.03	0.00	0.14	0.17	0.24	0.24	0.80	0.73	0.87	0.35	0.31	0.28	4.17
5	0.00	0.00	0.03	0.07	0.24	0.21	0.35	0.66	0.76	1.04	0.28	0.31	0.21	4.17
6	0.00	0.00	0.00	0.10	0.24	0.45	0.14	0.73	0.76	0.69	0.42	0.24	0.38	4.17
7	0.07	0.03	0.28	0.31	0.63	0.66	0.63	0.69	0.21	0.31	0.10	0.10	0.14	4.17
8	0.35	0.42	0.63	0.80	0.80	0.49	0.21	0.28	0.03	0.00	0.03	0.03	0.10	4.17
9	0.21	0.56	0.97	1.04	0.69	0.31	0.31	0.00	0.00	0.03	0.00	0.00	0.03	4.17
10	0.17	0.38	1.04	1.04	0.94	0.38	0.17	0.00	0.03	0.00	0.00	0.00	0.00	4.17
11	0.28	0.28	0.83	1.22	0.97	0.24	0.24	0.07	0.03	0.00	0.00	0.00	0.00	4.17
12	0.21	0.35	1.01	1.25	0.97	0.28	0.07	0.00	0.00	0.03	0.00	0.00	0.00	4.17
13	0.21	0.28	0.83	1.49	0.80	0.28	0.10	0.07	0.07	0.00	0.00	0.00	0.03	4.17
14	0.28	0.21	0.83	1.35	0.76	0.35	0.21	0.10	0.00	0.00	0.03	0.00	0.03	4.17
15	0.21	0.14	0.59	0.97	1.25	0.66	0.14	0.07	0.07	0.00	0.03	0.00	0.03	4.17
16	0.10	0.07	0.28	0.94	1.18	0.69	0.35	0.17	0.10	0.10	0.03	0.10	0.03	4.17
17	0.00	0.00	0.17	0.21	0.59	0.59	0.63	0.69	0.52	0.31	0.10	0.14	0.21	4.17
18	0.07	0.00	0.03	0.10	0.38	0.42	0.21	0.63	0.63	0.73	0.10	0.56	0.31	4.17
19	0.07	0.00	0.03	0.10	0.17	0.31	0.31	0.45	0.56	0.83	0.59	0.52	0.21	4.17
20	0.00	0.00	0.03	0.10	0.31	0.24	0.31	0.28	0.63	1.11	0.56	0.45	0.14	4.17
21	0.03	0.00	0.03	0.17	0.03	0.24	0.31	0.49	0.76	0.94	0.63	0.28	0.24	4.17
22	0.10	0.00	0.00	0.10	0.21	0.17	0.14	0.52	0.80	1.01	0.45	0.38	0.28	4.17
23	0.03	0.00	0.07	0.07	0.28	0.21	0.24	0.69	0.73	0.80	0.31	0.49	0.24	4.17
24	0.03	0.00	0.03	0.07	0.21	0.52	0.35	0.38	0.63	1.01	0.49	0.28	0.17	4.17
TOTAL	2.50	2.74	7.88	11.94	12.29	8.68	6.56	9.38	10.66	13.02	5.21	5.35	3.78	100.00

19-FOOT TO 75-FOOT LEVEL OCTOBER 1961-1964  
NUMBER OF OBSERVATIONS 2976

HOUR	VALUES OF P												MISSING	TOTAL
	.035	.05	.08	.11	.14	.17	.20	.25	.33	.45	.60	.676		
1	0.07	0.00	0.07	0.13	0.37	0.34	0.44	0.57	0.74	0.74	0.34	0.24	0.13	4.17
2	0.03	0.00	0.03	0.03	0.54	0.34	0.37	0.77	0.67	0.81	0.20	0.24	0.13	4.17
3	0.00	0.03	0.07	0.13	0.27	0.47	0.37	0.84	0.67	0.64	0.24	0.34	0.10	4.17
4	0.03	0.00	0.03	0.07	0.37	0.34	0.27	0.91	0.84	0.77	0.17	0.27	0.10	4.17
5	0.00	0.00	0.00	0.13	0.20	0.50	0.17	0.91	0.81	0.71	0.34	0.20	0.20	4.17
6	0.00	0.00	0.00	0.17	0.27	0.37	0.37	0.74	0.91	0.67	0.17	0.37	0.13	4.17
7	0.07	0.00	0.17	0.13	0.44	0.64	0.47	1.08	0.34	0.37	0.03	0.24	0.20	4.17
8	0.13	0.34	0.57	0.97	0.81	0.57	0.24	0.17	0.13	0.03	0.00	0.10	0.10	4.17
9	0.30	0.37	0.94	1.14	0.77	0.27	0.24	0.10	0.00	0.00	0.00	0.03	0.00	4.17
10	0.37	0.54	1.08	0.94	0.74	0.27	0.07	0.13	0.00	0.00	0.00	0.03	0.00	4.17
11	0.17	0.60	1.01	1.34	0.60	0.24	0.07	0.10	0.00	0.00	0.03	0.00	0.00	4.17
12	0.10	0.30	1.11	1.21	0.84	0.34	0.10	0.07	0.07	0.00	0.00	0.00	0.03	4.17
13	0.13	0.37	1.01	1.34	0.77	0.27	0.20	0.00	0.07	0.00	0.00	0.00	0.00	4.17
14	0.20	0.24	0.57	1.21	1.08	0.50	0.17	0.17	0.00	0.00	0.00	0.00	0.03	4.17
15	0.10	0.30	0.54	1.28	1.24	0.40	0.03	0.27	0.00	0.00	0.00	0.00	0.00	4.17
16	0.07	0.10	0.07	0.77	1.18	0.84	0.44	0.47	0.10	0.03	0.00	0.07	0.03	4.17
17	0.00	0.00	0.07	0.17	0.47	0.44	0.57	0.57	0.67	0.77	0.13	0.07	0.24	4.17
18	0.00	0.00	0.03	0.13	0.20	0.40	0.27	0.57	0.84	0.94	0.44	0.24	0.10	4.17
19	0.00	0.00	0.07	0.13	0.27	0.34	0.24	0.67	0.81	0.84	0.44	0.30	0.07	4.17
20	0.00	0.00	0.07	0.17	0.34	0.24	0.30	0.91	0.74	0.77	0.40	0.10	0.13	4.17
21	0.00	0.00	0.00	0.24	0.17	0.40	0.30	0.77	0.57	0.87	0.27	0.40	0.17	4.17
22	0.00	0.00	0.00	0.30	0.13	0.17	0.27	0.74	0.91	0.84	0.34	0.37	0.10	4.17
23	0.00	0.00	0.07	0.07	0.20	0.47	0.27	0.81	0.84	0.67	0.34	0.20	0.24	4.17
24	0.03	0.00	0.03	0.07	0.30	0.57	0.17	0.64	0.94	0.67	0.30	0.24	0.20	4.17
TOTAL	1.81	3.19	7.59	12.30	12.57	9.71	6.38	12.97	11.66	11.16	4.17	4.03	2.45	100.00

Table 96. Percentage Frequency Distribution of p-values Based on  
19- and 75-foot Wind Speeds (mph) for Each Hour of the Day.  
November-December 1961-1964

19-FOOT TO 75-FOOT LEVEL NOVEMBER 1961-1964  
NUMBER OF OBSERVATIONS 2880

HOUR	VALUES OF P											MISSING	TOTAL	
	.035	.05	.08	.11	.14	.17	.20	.25	.33	.45	.60			.676
1	0.03	0.00	0.07	0.28	0.28	0.49	0.31	0.63	0.66	0.66	0.21	0.07	0.49	4.17
2	0.00	0.03	0.03	0.31	0.49	0.42	0.35	0.42	0.69	0.66	0.14	0.17	0.45	4.17
3	0.00	0.00	0.03	0.24	0.45	0.28	0.42	0.66	0.59	0.59	0.10	0.28	0.52	4.17
4	0.03	0.03	0.00	0.31	0.42	0.49	0.35	0.49	0.83	0.52	0.21	0.07	0.42	4.17
5	0.07	0.03	0.03	0.10	0.52	0.45	0.35	0.80	0.69	0.28	0.21	0.14	0.49	4.17
6	0.03	0.03	0.03	0.35	0.38	0.42	0.35	0.83	0.52	0.52	0.14	0.10	0.45	4.17
7	0.03	0.00	0.10	0.24	0.49	0.38	0.49	0.76	0.59	0.38	0.14	0.10	0.45	4.17
8	0.07	0.03	0.24	0.80	0.87	0.49	0.31	0.42	0.17	0.17	0.07	0.14	0.38	4.17
9	0.24	0.35	0.66	1.15	0.76	0.49	0.10	0.00	0.00	0.00	0.00	0.03	0.38	4.17
10	0.14	0.35	0.94	1.18	0.76	0.24	0.07	0.07	0.03	0.00	0.00	0.00	0.38	4.17
11	0.10	0.63	0.83	1.11	0.66	0.28	0.07	0.07	0.00	0.00	0.00	0.03	0.38	4.17
12	0.17	0.45	0.66	1.25	0.63	0.38	0.03	0.14	0.03	0.00	0.00	0.03	0.38	4.17
13	0.14	0.42	0.69	1.15	0.80	0.35	0.10	0.07	0.07	0.00	0.00	0.00	0.38	4.17
14	0.07	0.24	0.49	1.32	0.90	0.42	0.17	0.10	0.03	0.03	0.00	0.03	0.35	4.17
15	0.14	0.10	0.63	0.80	1.11	0.38	0.38	0.10	0.00	0.03	0.07	0.03	0.38	4.17
16	0.07	0.07	0.21	0.49	0.66	0.66	0.56	0.56	0.31	0.17	0.03	0.00	0.38	4.17
17	0.03	0.00	0.00	0.17	0.73	0.52	0.28	0.66	0.49	0.52	0.07	0.21	0.49	4.17
18	0.00	0.03	0.00	0.28	0.42	0.66	0.14	0.31	0.76	0.66	0.35	0.17	0.38	4.17
19	0.03	0.00	0.03	0.17	0.66	0.31	0.24	0.52	0.52	0.90	0.14	0.17	0.45	4.17
20	0.00	0.00	0.07	0.35	0.42	0.35	0.24	0.42	0.66	0.66	0.35	0.24	0.42	4.17
21	0.00	0.00	0.10	0.21	0.52	0.38	0.38	0.52	0.73	0.49	0.21	0.14	0.49	4.17
22	0.00	0.00	0.07	0.17	0.56	0.45	0.42	0.56	0.52	0.52	0.24	0.28	0.38	4.17
23	0.07	0.00	0.00	0.52	0.24	0.56	0.24	0.45	0.63	0.66	0.21	0.10	0.49	4.17
24	0.00	0.00	0.03	0.24	0.42	0.45	0.42	0.63	0.52	0.59	0.24	0.21	0.42	4.17
TOTAL	1.49	2.81	5.97	13.19	14.13	10.28	6.77	10.17	10.07	9.03	3.13	2.78	10.17	100.00

19-FOOT TO 75-FOOT LEVEL DECEMBER 1961-1964  
NUMBER OF OBSERVATIONS 2976

HOUR	VALUES OF P											MISSING	TOTAL	
	.035	.05	.08	.11	.14	.17	.20	.25	.33	.45	.60			.676
1	0.07	0.00	0.10	0.64	0.60	0.57	0.47	0.40	0.40	0.34	0.03	0.13	0.40	4.17
2	0.00	0.00	0.24	0.40	0.60	0.57	0.27	0.57	0.40	0.44	0.17	0.10	0.40	4.17
3	0.07	0.00	0.10	0.54	0.64	0.57	0.30	0.47	0.40	0.44	0.10	0.17	0.37	4.17
4	0.03	0.07	0.17	0.37	0.67	0.40	0.47	0.50	0.40	0.34	0.13	0.20	0.40	4.17
5	0.03	0.07	0.20	0.40	0.44	0.54	0.50	0.27	0.64	0.37	0.13	0.13	0.44	4.17
6	0.10	0.10	0.07	0.37	0.74	0.47	0.17	0.71	0.47	0.20	0.20	0.13	0.44	4.17
7	0.07	0.07	0.17	0.30	0.47	0.74	0.30	0.67	0.37	0.37	0.13	0.07	0.44	4.17
8	0.03	0.10	0.24	0.67	0.71	0.44	0.44	0.37	0.30	0.13	0.10	0.17	0.47	4.17
9	0.17	0.37	0.44	0.94	0.84	0.34	0.30	0.13	0.13	0.03	0.00	0.03	0.44	4.17
10	0.20	0.40	0.77	1.04	0.91	0.24	0.13	0.03	0.00	0.03	0.00	0.03	0.37	4.17
11	0.30	0.54	0.87	1.08	0.64	0.20	0.10	0.07	0.00	0.00	0.00	0.00	0.37	4.17
12	0.20	0.37	0.81	1.28	0.77	0.34	0.03	0.00	0.00	0.00	0.00	0.00	0.37	4.17
13	0.17	0.34	0.91	1.18	0.87	0.27	0.03	0.03	0.00	0.00	0.00	0.00	0.37	4.17
14	0.13	0.17	0.67	1.31	0.97	0.37	0.13	0.03	0.00	0.00	0.00	0.00	0.37	4.17
15	0.03	0.30	0.81	0.91	0.97	0.44	0.24	0.07	0.03	0.00	0.00	0.00	0.37	4.17
16	0.00	0.10	0.27	0.77	0.97	0.64	0.20	0.47	0.20	0.10	0.03	0.03	0.37	4.17
17	0.03	0.00	0.20	0.17	0.81	0.57	0.57	0.37	0.47	0.34	0.07	0.10	0.47	4.17
18	0.00	0.00	0.17	0.34	0.64	0.47	0.44	0.71	0.47	0.37	0.07	0.10	0.40	4.17
19	0.00	0.00	0.17	0.24	0.57	0.67	0.40	0.54	0.34	0.47	0.13	0.17	0.47	4.17
20	0.00	0.03	0.03	0.44	0.84	0.47	0.30	0.50	0.50	0.37	0.10	0.17	0.40	4.17
21	0.00	0.00	0.13	0.30	0.84	0.50	0.27	0.60	0.34	0.50	0.03	0.24	0.40	4.17
22	0.03	0.07	0.07	0.34	0.74	0.54	0.40	0.54	0.47	0.34	0.10	0.07	0.47	4.17
23	0.00	0.07	0.17	0.34	0.71	0.71	0.34	0.40	0.47	0.30	0.13	0.13	0.40	4.17
24	0.00	0.00	0.20	0.37	0.67	0.81	0.20	0.47	0.27	0.54	0.20	0.03	0.40	4.17
TOTAL	1.68	3.16	7.96	14.72	17.64	11.86	7.02	8.94	7.09	6.01	1.88	2.22	9.81	100.00

Table 97. Percentage Frequency Distribution of p-values Based on  
19- and 75-foot Wind Speeds (mph) for Each Hour of the Day.  
January 1961-December 1964

19-FOOT TO 75-FOOT LEVEL ALL YEARS 1961-1964  
NUMBER OF OBSERVATIONS 35064

HOUR	VALUES OF P												MISSING	TOTAL
	.035	.05	.08	.11	.14	.17	.20	.25	.33	.45	.60	.676		
1	0.03	0.01	0.08	0.28	0.35	0.43	0.29	0.55	0.69	0.67	0.22	0.26	0.29	4.17
2	0.02	0.02	0.07	0.19	0.42	0.42	0.30	0.60	0.68	0.72	0.21	0.24	0.28	4.17
3	0.03	0.01	0.07	0.27	0.40	0.36	0.33	0.62	0.72	0.67	0.19	0.24	0.27	4.17
4	0.01	0.02	0.08	0.26	0.37	0.33	0.37	0.62	0.70	0.64	0.23	0.25	0.27	4.17
5	0.02	0.03	0.07	0.22	0.37	0.38	0.38	0.63	0.69	0.60	0.22	0.25	0.30	4.17
6	0.04	0.02	0.09	0.35	0.45	0.48	0.45	0.65	0.53	0.43	0.16	0.23	0.31	4.17
7	0.14	0.10	0.30	0.61	0.64	0.62	0.38	0.51	0.27	0.18	0.07	0.10	0.24	4.17
8	0.21	0.26	0.59	0.87	0.79	0.47	0.25	0.25	0.11	0.08	0.03	0.06	0.20	4.17
9	0.23	0.35	0.81	1.14	0.75	0.33	0.18	0.10	0.06	0.02	0.00	0.02	0.17	4.17
10	0.22	0.41	0.87	1.16	0.75	0.31	0.13	0.11	0.02	0.01	0.00	0.02	0.16	4.17
11	0.18	0.42	0.92	1.19	0.75	0.30	0.13	0.08	0.02	0.00	0.01	0.01	0.15	4.17
12	0.19	0.34	0.91	1.31	0.74	0.30	0.10	0.08	0.04	0.01	0.00	0.00	0.16	4.17
13	0.15	0.37	0.90	1.27	0.80	0.28	0.10	0.10	0.03	0.01	0.01	0.00	0.15	4.17
14	0.18	0.25	0.76	1.23	0.90	0.37	0.16	0.12	0.02	0.01	0.00	0.01	0.15	4.17
15	0.10	0.22	0.74	1.03	1.01	0.44	0.26	0.15	0.03	0.00	0.01	0.01	0.16	4.17
16	0.08	0.13	0.42	0.98	0.98	0.63	0.33	0.25	0.10	0.07	0.01	0.02	0.16	4.17
17	0.04	0.06	0.25	0.54	0.85	0.69	0.47	0.44	0.28	0.21	0.05	0.06	0.22	4.17
18	0.01	0.03	0.07	0.37	0.58	0.59	0.45	0.66	0.54	0.39	0.11	0.14	0.23	4.17
19	0.02	0.01	0.07	0.20	0.43	0.44	0.35	0.66	0.59	0.61	0.24	0.25	0.28	4.17
20	0.02	0.02	0.06	0.23	0.46	0.34	0.29	0.58	0.66	0.68	0.29	0.27	0.27	4.17
21	0.02	0.00	0.09	0.23	0.35	0.41	0.30	0.63	0.59	0.70	0.27	0.32	0.27	4.17
22	0.05	0.01	0.06	0.21	0.39	0.37	0.27	0.62	0.70	0.65	0.28	0.28	0.27	4.17
23	0.02	0.01	0.08	0.22	0.38	0.43	0.31	0.58	0.63	0.64	0.30	0.24	0.33	4.17
24	0.03	0.00	0.08	0.21	0.38	0.41	0.33	0.56	0.69	0.69	0.27	0.22	0.29	4.17
TOTAL	2.04	3.12	8.44	14.56	14.29	10.15	6.91	10.17	9.39	8.69	3.18	3.49	5.55	100.00

Table 98. Joint Percentage Frequency Distribution of p-values Based on  
19- and 75-foot Wind Speeds (mph) and 19-foot Wind Speed (mph).  
January-June 1961-1964

JANUARY NUMBER OF OBSERVATIONS 2976								FEBRUARY NUMBER OF OBSERVATIONS 2712							
P-VALUES	19-FOOT SPEED (MPH)					MISSING	TOTAL	P-VALUES	19-FOOT SPEED (MPH)					MISSING	TOTAL
	1-3	4-7	8-12	13-24	>24				1-3	4-7	8-12	13-24	>24		
0.035	0.24	0.71	0.24	0.03	0.00	0.07	1.28	0.035	0.55	1.14	0.41	0.07	0.00	0.07	2.25
0.05	0.17	1.48	1.48	0.37	0.00	0.00	3.49	0.05	0.29	1.92	1.59	0.77	0.00	0.00	4.57
0.08	0.34	2.42	3.39	2.05	0.00	0.00	8.20	0.08	0.04	3.32	5.01	2.91	0.04	0.00	11.32
0.11	0.30	2.39	6.55	6.42	0.07	0.00	15.73	0.11	0.59	3.58	7.08	6.53	0.00	0.00	17.77
0.14	0.47	3.43	5.98	5.91	0.20	0.00	15.99	0.14	0.07	3.21	6.56	4.31	0.00	0.00	14.16
0.17	0.44	3.09	5.44	3.63	0.03	0.00	12.63	0.17	0.41	2.58	4.31	1.18	0.00	0.00	8.48
0.20	0.34	2.62	3.43	0.91	0.00	0.00	7.29	0.20	0.29	2.47	2.36	0.15	0.00	0.00	5.27
0.25	0.74	4.84	3.19	0.10	0.00	0.00	8.87	0.25	0.88	6.49	1.77	0.04	0.00	0.00	9.18
0.33	1.65	5.81	0.37	0.00	0.00	0.03	7.86	0.33	1.92	5.75	0.18	0.00	0.00	0.00	7.85
0.45	2.25	2.32	0.00	0.00	0.00	0.00	4.57	0.45	2.88	2.69	0.00	0.00	0.00	0.04	5.60
0.60	1.18	0.10	0.00	0.00	0.00	0.00	1.28	0.60	1.55	0.15	0.00	0.00	0.00	0.00	1.70
0.676	0.27	0.00	0.00	0.00	0.00	0.14	1.41	0.676	1.33	0.00	0.00	0.00	0.00	1.44	2.77
MISSING	1.81	3.97	3.80	0.87	0.00	0.94	11.39	MISSING	0.63	2.43	2.80	1.33	0.00	1.88	9.07
TOTAL	10.18	33.17	33.87	20.30	0.30	2.18	100.00	TOTAL	11.43	35.73	32.08	17.29	0.04	3.43	100.00

MARCH NUMBER OF OBSERVATIONS 2976								APRIL NUMBER OF OBSERVATIONS 2880							
P-VALUES	19-FOOT SPEED (MPH)					MISSING	TOTAL	P-VALUES	19-FOOT SPEED (MPH)					MISSING	TOTAL
	1-3	4-7	8-12	13-24	>24				1-3	4-7	8-12	13-24	>24		
0.035	0.40	0.67	0.34	0.40	0.00	0.03	1.85	0.035	0.31	0.69	0.38	0.00	0.00	0.07	1.46
0.05	0.10	1.31	0.97	0.91	0.00	0.00	3.29	0.05	0.10	1.28	1.94	0.87	0.00	0.00	4.20
0.08	0.20	2.42	5.48	3.53	0.10	0.00	11.73	0.08	0.28	2.74	5.14	5.00	0.03	0.00	13.19
0.11	0.17	3.23	7.73	7.56	0.47	0.00	19.15	0.11	0.21	2.81	7.22	7.33	0.49	0.00	18.06
0.14	0.24	3.19	7.86	5.91	0.17	0.00	17.37	0.14	0.17	2.60	7.36	5.83	0.35	0.00	16.32
0.17	0.13	2.79	5.71	2.25	0.00	0.00	10.89	0.17	0.31	2.64	6.74	2.74	0.03	0.00	12.47
0.20	0.60	3.16	3.06	1.11	0.07	0.00	8.00	0.20	0.28	3.09	3.40	0.87	0.03	0.00	7.67
0.25	1.01	5.75	3.19	0.34	0.00	0.00	10.28	0.25	0.45	6.11	2.22	0.35	0.00	0.00	9.13
0.33	1.48	5.85	0.20	0.00	0.00	0.00	7.53	0.33	1.22	6.35	0.14	0.03	0.00	0.00	7.74
0.45	2.82	2.42	0.00	0.00	0.00	0.00	5.24	0.45	2.60	2.88	0.00	0.00	0.00	0.00	5.49
0.60	1.38	0.07	0.00	0.00	0.00	0.00	1.44	0.60	1.49	0.03	0.00	0.00	0.00	0.00	1.53
0.676	0.94	0.00	0.00	0.00	0.00	0.64	1.58	0.676	1.04	0.00	0.00	0.00	0.00	0.90	1.94
MISSING	0.03	0.00	0.00	0.00	0.00	1.61	1.65	MISSING	0.00	0.00	0.00	0.00	0.00	0.80	0.80
TOTAL	9.51	30.85	34.54	22.01	0.81	2.26	100.00	TOTAL	8.47	31.25	34.55	23.02	0.94	1.77	100.00

MAY NUMBER OF OBSERVATIONS 2976								JUNE NUMBER OF OBSERVATIONS 2880							
P-VALUES	19-FOOT SPEED (MPH)					MISSING	TOTAL	P-VALUES	19-FOOT SPEED (MPH)					MISSING	TOTAL
	1-3	4-7	8-12	13-24	>24				1-3	4-7	8-12	13-24	>24		
0.035	0.67	0.27	0.03	0.03	0.00	0.17	1.18	0.035	1.56	1.11	0.17	0.03	0.00	0.24	3.13
0.05	0.20	0.81	0.44	0.17	0.00	0.00	1.61	0.05	0.28	1.39	0.35	0.00	0.00	0.00	2.01
0.08	0.30	1.78	2.59	0.94	0.00	0.00	5.61	0.08	0.38	3.13	2.26	0.49	0.00	0.00	6.25
0.11	0.24	2.92	7.09	3.86	0.00	0.00	14.11	0.11	0.42	4.65	5.56	1.84	0.03	0.00	12.50
0.14	0.47	2.49	7.22	5.51	0.13	0.00	15.83	0.14	0.56	4.38	6.67	1.84	0.00	0.03	13.47
0.17	0.27	2.18	4.87	3.26	0.03	0.00	10.62	0.17	0.56	3.85	4.31	1.11	0.00	0.00	9.83
0.20	0.44	2.96	3.73	0.97	0.00	0.00	8.10	0.20	0.59	3.47	2.60	0.80	0.00	0.00	7.47
0.25	0.71	7.26	3.33	0.10	0.00	0.00	11.39	0.25	1.32	7.22	2.33	0.14	0.00	0.00	11.01
0.33	1.28	8.13	0.44	0.00	0.00	0.00	9.85	0.33	2.53	7.19	0.21	0.00	0.00	0.03	9.97
0.45	3.02	4.64	0.00	0.00	0.00	0.07	7.73	0.45	5.35	5.49	0.03	0.00	0.00	0.07	10.94
0.60	2.15	0.40	0.00	0.00	0.00	0.00	2.55	0.60	4.38	0.10	0.00	0.00	0.00	0.03	4.51
0.676	1.98	0.03	0.00	0.00	0.00	1.41	3.43	0.676	3.51	0.00	0.00	0.00	0.00	3.09	6.60
MISSING	0.37	1.55	3.43	1.08	0.00	1.58	8.00	MISSING	0.00	0.00	0.00	0.00	0.00	2.33	2.33
TOTAL	12.10	35.42	33.17	15.93	0.17	3.23	100.00	TOTAL	21.42	41.98	24.48	6.25	0.03	5.83	100.00

Table 99. Joint Percentage Frequency Distribution of p-values Based on 19- and 75-foot Wind Speeds (mph) and 19-foot Wind Speed (mph). July-December 1961-1964 and January 1961-December 1964

JULY NUMBER OF OBSERVATIONS 2976								AUGUST NUMBER OF OBSERVATIONS 2976							
P-VALUES	19-FOOT SPEED (MPH)					MISSING	TOTAL	P-VALUES	19-FOOT SPEED (MPH)					MISSING	TOTAL
	1-3	4-7	8-12	13-24	>24				1-3	4-7	8-12	13-24	>24		
0.035	1.48	0.84	0.07	0.03	0.00	0.24	2.65	0.035	1.24	1.44	0.54	0.00	0.00	0.03	3.26
0.05	0.40	2.08	0.67	0.07	0.00	0.00	3.23	0.05	0.40	1.98	0.87	0.00	0.00	0.00	3.26
0.08	0.64	4.03	2.45	0.44	0.00	0.00	7.56	0.08	0.71	4.37	2.99	0.17	0.00	0.00	8.23
0.11	0.77	5.61	5.71	0.64	0.00	0.00	12.74	0.11	0.77	5.48	5.91	0.60	0.00	0.00	12.77
0.14	0.60	4.54	5.17	1.14	0.00	0.00	11.46	0.14	0.44	4.07	4.37	1.34	0.00	0.00	10.22
0.17	0.81	3.86	3.66	0.34	0.00	0.00	8.67	0.17	0.50	3.53	2.92	0.64	0.00	0.00	7.59
0.20	0.57	4.30	2.05	0.07	0.00	0.00	6.99	0.20	0.57	2.82	1.65	0.20	0.00	0.00	5.24
0.25	1.44	8.67	0.71	0.10	0.00	0.00	10.92	0.25	1.31	7.12	1.18	0.03	0.00	0.00	9.64
0.33	3.46	7.90	0.07	0.00	0.00	0.00	11.46	0.33	2.45	8.40	0.03	0.00	0.00	0.00	10.89
0.45	8.10	4.30	0.00	0.00	0.00	0.03	12.53	0.45	7.66	5.04	0.00	0.00	0.00	0.00	12.80
0.60	4.10	0.13	0.00	0.00	0.00	0.00	4.23	0.60	5.95	0.54	0.00	0.00	0.00	0.00	6.49
0.676	2.55	0.00	0.00	0.00	0.00	1.68	4.23	0.676	3.53	0.00	0.00	0.00	0.00	2.08	5.61
MISSING	0.07	0.00	0.00	0.00	0.00	3.26	3.33	MISSING	0.07	0.00	0.00	0.00	0.00	3.93	4.00
TOTAL	25.00	46.27	20.56	2.82	0.00	5.34	100.00	TOTAL	25.60	44.79	20.46	2.99	0.00	6.15	100.00

SEPTEMBER NUMBER OF OBSERVATIONS 2880								OCTOBER NUMBER OF OBSERVATIONS 2976							
P-VALUES	19-FOOT SPEED (MPH)					MISSING	TOTAL	P-VALUES	19-FOOT SPEED (MPH)					MISSING	TOTAL
	1-3	4-7	8-12	13-24	>24				1-3	4-7	8-12	13-24	>24		
0.035	1.35	0.80	0.10	0.00	0.00	0.24	2.50	0.035	0.87	0.54	0.37	0.00	0.00	0.03	1.81
0.05	0.52	1.63	0.59	0.00	0.00	0.00	2.74	0.05	0.24	1.51	1.24	0.20	0.00	0.00	3.19
0.08	0.24	3.92	3.13	0.59	0.00	0.00	7.88	0.08	0.30	2.08	3.60	1.61	0.00	0.00	7.59
0.11	0.52	4.86	5.07	1.49	0.00	0.00	11.94	0.11	0.67	2.99	4.97	3.66	0.00	0.00	12.30
0.14	0.28	3.89	5.14	2.99	0.00	0.00	12.29	0.14	0.40	2.55	6.28	3.33	0.00	0.00	12.57
0.17	0.59	3.09	3.92	1.04	0.03	0.00	8.68	0.17	0.74	3.02	4.84	1.11	0.00	0.00	9.71
0.20	0.69	3.19	2.15	0.52	0.00	0.00	6.56	0.20	0.13	2.92	3.09	0.17	0.00	0.07	6.38
0.25	1.39	6.91	0.97	0.07	0.00	0.00	9.38	0.25	0.91	8.84	3.23	0.00	0.00	12.97	
0.33	2.29	8.37	0.00	0.00	0.00	0.00	10.66	0.33	2.28	9.17	0.20	0.00	0.00	0.00	11.66
0.45	7.57	5.42	0.00	0.00	0.00	0.00	13.02	0.45	5.85	5.28	0.00	0.00	0.00	0.00	11.16
0.60	5.03	0.14	0.00	0.00	0.00	0.00	5.21	0.60	3.86	0.27	0.00	0.00	0.00	0.03	4.17
0.676	3.19	0.00	0.00	0.00	0.00	2.15	5.35	0.676	2.35	0.00	0.00	0.00	0.00	1.68	4.03
MISSING	0.10	0.00	0.00	0.00	0.00	3.68	3.78	MISSING	0.00	0.00	0.00	0.00	0.00	2.45	2.53
TOTAL	23.78	42.22	21.08	6.70	0.03	6.18	100.00	TOTAL	18.62	39.18	27.82	10.08	0.00	4.30	100.00

NOVEMBER NUMBER OF OBSERVATIONS 2880								DECEMBER NUMBER OF OBSERVATIONS 2976							
P-VALUES	19-FOOT SPEED (MPH)					MISSING	TOTAL	P-VALUES	19-FOOT SPEED (MPH)					MISSING	TOTAL
	1-3	4-7	8-12	13-24	>24				1-3	4-7	8-12	13-24	>24		
0.035	0.42	0.73	0.14	0.14	0.00	0.07	1.49	0.035	0.60	0.81	0.10	0.00	0.00	0.17	1.68
0.05	0.24	1.32	0.87	0.38	0.00	0.00	2.81	0.05	0.34	1.61	0.74	0.47	0.00	0.00	3.16
0.08	0.17	2.26	2.64	0.87	0.03	0.00	5.97	0.08	0.37	2.12	4.07	1.41	0.00	0.00	7.96
0.11	0.49	2.88	5.45	4.31	0.07	0.00	13.19	0.11	0.37	3.93	6.62	3.80	0.00	0.00	14.72
0.14	0.49	2.60	5.56	5.31	0.17	0.00	14.13	0.14	0.40	3.73	9.31	4.20	0.00	0.00	17.64
0.17	0.28	3.09	4.69	2.22	0.00	0.00	10.28	0.17	0.47	3.73	5.98	1.68	0.00	0.00	11.86
0.20	0.45	2.78	2.85	0.63	0.03	0.00	6.77	0.20	0.47	2.52	3.39	0.64	0.00	0.00	7.02
0.25	1.28	6.56	2.22	0.10	0.00	0.00	10.17	0.25	1.21	5.48	2.12	0.13	0.00	0.00	8.94
0.33	2.47	7.53	0.07	0.00	0.00	0.00	10.07	0.33	1.55	5.38	0.17	0.00	0.00	0.00	7.09
0.45	4.97	4.06	0.00	0.00	0.00	0.00	9.03	0.45	2.96	3.02	0.00	0.00	0.00	0.00	6.01
0.60	2.78	0.28	0.00	0.00	0.00	0.07	3.13	0.60	1.81	0.07	0.00	0.00	0.00	0.00	1.88
0.676	1.70	0.30	0.00	0.00	0.00	1.08	2.78	0.676	1.21	0.00	0.00	0.00	0.00	1.01	2.22
MISSING	1.08	3.61	2.81	0.69	0.00	1.98	10.17	MISSING	1.11	2.59	2.12	2.72	0.00	1.28	9.81
TOTAL	16.81	37.71	27.29	14.65	0.31	3.23	100.00	TOTAL	12.87	34.98	34.61	15.05	0.00	2.49	100.00

ALL YEARS NUMBER OF OBSERVATIONS 35064							
P-VALUES	19-FOOT SPEED (MPH)					MISSING	TOTAL
	1-3	4-7	8-12	13-24	>24		
0.035	0.81	0.81	0.24	0.06	0.00	0.12	2.04
0.05	0.27	1.53	0.98	0.35	0.00	0.00	3.12
0.08	0.33	2.88	3.55	1.66	0.02	0.00	8.44
0.11	0.46	3.78	6.25	3.99	0.09	0.00	14.56
0.14	0.39	3.39	6.46	3.97	0.09	0.00	14.29
0.17	0.46	3.13	4.79	1.77	0.01	0.00	10.15
0.20	0.45	3.03	2.82	0.59	0.01	0.00	6.91
0.25	1.06	6.77	2.21	0.13	0.00	0.00	10.17
0.33	2.05	7.16	0.17	0.00	0.00	0.00	9.39
0.45	4.68	3.97	0.00	0.00	0.00	0.00	8.69
0.60	2.98	0.19	0.00	0.00	0.00	0.00	3.18
0.676	1.97	0.00	0.00	0.00	0.00	1.52	3.49
MISSING	0.44	1.17	1.24	0.56	0.00	2.14	5.55
TOTAL	16.34	37.81	28.70	13.06	0.22	3.87	100.00

Table 100. Percentage Frequency Distribution of the Difference between p-values Based on 19- and 75-foot Wind Speeds (mph) and p-values Based on 19- and 150-foot Wind Speeds (mph) for Each Hour of the Day. January 1961-December 1964. Number of Observations, 35,064

HOUR	19875-FOOT P-VALUE MINUS						198150-FOOT P-VALUE					MISSING	TOTAL
	≤-.5	-.4	-.3	-.2	-.1	0.0	.1	.2	.3	.4	≥.5		
1	0.01	0.01	0.01	0.11	1.66	1.75	C.18	0.03	0.03	0.03	0.06	0.29	4.17
2	0.01	0.01	0.01	0.12	1.61	1.80	C.19	0.05	0.03	0.03	0.04	0.28	4.17
3	0.02	0.01	0.02	0.11	1.66	1.78	C.16	0.07	0.03	0.03	0.03	0.27	4.17
4	0.01	0.00	0.01	0.09	1.67	1.75	C.19	0.03	0.03	0.04	0.07	0.27	4.17
5	0.02	0.01	0.03	0.11	1.60	1.75	C.15	0.09	0.03	0.04	0.04	0.30	4.17
6	0.01	0.02	0.03	0.16	1.56	1.77	C.15	0.05	0.02	0.03	0.06	0.31	4.17
7	0.03	0.01	0.02	0.17	1.52	1.96	C.14	0.02	0.02	0.01	0.03	0.24	4.17
8	0.01	0.00	0.03	0.13	1.05	2.52	C.17	0.01	0.02	0.01	0.02	0.20	4.17
9	0.01	0.01	0.02	0.05	0.69	2.99	C.19	0.01	0.01	0.01	0.01	0.17	4.17
10	0.00	0.00	0.01	0.04	0.55	3.20	C.18	0.01	0.01	0.01	0.01	0.16	4.17
11	0.00	0.00	0.01	0.03	0.55	3.23	C.17	0.01	0.01	0.00	0.00	0.15	4.17
12	0.00	0.00	0.00	0.03	0.55	3.30	C.12	0.00	0.01	0.00	0.00	0.16	4.17
13	0.00	0.00	0.00	0.03	0.50	3.30	C.16	0.01	0.00	0.01	0.00	0.15	4.17
14	0.01	0.01	0.00	0.03	0.52	3.27	C.16	0.01	0.00	0.01	0.00	0.15	4.17
15	0.00	0.00	0.00	0.03	0.60	3.21	C.14	0.01	0.00	0.00	0.01	0.16	4.17
16	0.00	0.00	0.01	0.04	0.85	2.98	C.11	0.01	0.01	0.01	0.01	0.16	4.17
17	0.00	0.00	0.00	0.05	1.08	2.66	C.10	0.03	0.01	0.01	0.02	0.22	4.17
18	0.01	0.00	0.01	0.04	1.44	2.20	C.15	0.03	0.02	0.02	0.03	0.23	4.17
19	0.00	0.01	0.01	0.05	1.48	2.03	C.15	0.05	0.04	0.03	0.05	0.28	4.17
20	0.02	0.00	0.01	0.07	1.63	1.87	C.14	0.06	0.01	0.03	0.05	0.27	4.17
21	0.01	0.01	0.02	0.07	1.68	1.77	C.18	0.07	0.01	0.04	0.05	0.27	4.17
22	0.02	0.01	0.02	0.09	1.69	1.74	C.16	0.06	0.01	0.03	0.06	0.27	4.17
23	0.01	0.00	0.01	0.09	1.65	1.79	C.13	0.03	0.05	0.02	0.05	0.33	4.17
24	0.02	0.01	0.01	0.11	1.69	1.73	C.15	0.06	0.03	0.03	0.04	0.29	4.17
TOTAL	0.23	0.12	0.30	1.81	29.49	56.34	3.72	0.80	0.46	0.45	0.75	5.55	100.00



Table 101. Joint Percentage Frequency Distribution of 19-foot Wind Speed (mph) and the Difference between the 150-foot Wind Speed Calculated from p-values Based on 19- and 75-foot Wind Speeds (mph) and the Observed 150-foot Wind Speed (mph). January 1961-December 1964. Number of Observations, 35,064

CALCULATED MINUS OBSERVED	OBSERVED 19-FOOT WIND SPEED (MPH)										MISSING	TOTAL	
	CALM	1-3	4-7	8-12	13-18	19-24	25-31	32-38	39-46	>46			
≤-9	0.54	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.56
-8	0.08	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
-7	0.09	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10
-6	0.08	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13
-5	0.07	0.09	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17
-4	0.10	0.17	0.04	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32
-3	0.09	0.36	0.11	0.04	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.61
-2	0.10	0.69	0.32	0.20	0.09	0.02	0.00	0.00	0.00	0.00	0.00	0.00	1.42
-1	0.11	1.79	2.03	1.99	0.90	0.11	0.01	0.00	0.00	0.00	0.00	0.00	6.94
0	0.15	4.91	11.55	8.74	2.80	0.38	0.05	0.00	0.00	0.00	0.00	0.00	28.58
1	0.08	4.28	13.66	10.03	4.10	0.59	0.07	0.00	0.00	0.00	0.00	0.00	32.80
2	0.05	1.97	7.02	5.31	2.39	0.39	0.04	0.00	0.00	0.00	0.00	0.00	17.18
3	0.03	0.62	1.70	1.29	0.65	0.19	0.04	0.00	0.00	0.00	0.00	0.00	4.52
4	0.01	0.14	0.26	0.18	0.14	0.07	0.01	0.00	0.00	0.00	0.00	0.00	0.80
5	0.00	0.02	0.06	0.03	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.16
6	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
7	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
≥9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MISSING	2.07	0.43	1.17	1.25	0.51	0.06	0.00	0.00	0.00	0.00	0.00	0.00	5.48
TOTAL	3.65	15.58	37.94	29.08	11.64	1.82	0.22	0.00	0.00	0.00	0.00	0.00	99.93

Table 102. Joint Percentage Frequency Distribution of 19-foot Wind Speed (mph) and the Difference between the 37-foot Wind Speed Calculated from p-values Based on 19- and 75-foot Wind Speeds (mph) and the Observed 37-foot Wind Speed (mph). January 1961-December 1964. Number of Observations, 35,064

CALCULATED MINUS OBSERVED	OBSERVED 19-FOOT WIND SPEED (MPH)										MISSING	TOTAL	
	CALM	1-3	4-7	8-12	13-18	19-24	25-31	32-38	39-46	>46			
≤-9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-2	0.00	0.02	0.03	0.03	0.07	0.03	0.02	0.00	0.00	0.00	0.00	0.00	0.01
-1	0.05	0.84	3.08	2.59	1.30	0.33	0.02	0.00	0.00	0.00	0.00	0.00	0.19
0	0.61	13.08	32.88	24.25	9.10	1.26	0.17	0.00	0.00	0.00	0.00	0.00	81.36
1	0.60	1.15	0.77	0.94	0.66	0.15	0.01	0.00	0.00	0.00	0.00	0.00	4.28
2	0.28	0.07	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38
3	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
≥9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MISSING	2.07	0.43	1.17	1.25	0.51	0.06	0.00	0.00	0.00	0.00	0.00	0.00	5.49
TOTAL	3.65	15.58	37.94	29.08	11.64	1.82	0.22	0.00	0.00	0.00	0.00	0.00	99.93

## Section 1.2

Air Temperature

The ambient temperature was measured by a hygrothermograph from January 1, 1950 to June 30, 1951. Hourly air temperature values were read from the hygrothermograph recorder charts to the nearest whole degree Fahrenheit. Since the temperature element of this instrument does not respond to rapid temperature fluctuations, each reading represents a time average taken over a period of several minutes. The hygrothermograph, housed in a U.S. Weather Bureau cotton-region type shelter, was serviced once a week, and the temperature readings were checked with a mercurial thermometer. Calibration corrections and chart time corrections were distributed proportionately.

On July 1, 1951, an aspirated copper-constantan thermopile replaced the hygrothermograph as the principal instrument for measuring air temperature; nevertheless, operation of the hygrothermograph has continued to the present. From July 1, 1951, to August 5, 1952, air temperature was measured at 3.5 feet above ground by a thermopile which was mounted on a boom extending laterally from a pole located on the observation site as shown in Figure 2 of Appendix II. On August 6, 1952, the boom was raised to a height of 5.5 feet. The signal from the thermopile is recorded on a Honeywell Potentiometer. Temperature readings from this recorder are read to the nearest tenth of a degree Celsius and represent ten-minute averages centered on the hour. The degrees Celsius were converted to degrees Fahrenheit.

Prior to July 1, 1951, daily maximum and minimum temperatures were read from the hygrothermograph traces. After this time they were read from the Honeywell recorder charts and represent 5-minute averages. The time of the maximum or minimum was taken as the midpoint of the 5-minute period.

There is some bias in the temperature records because the temperatures measured by the hygrothermograph were measured to the nearest whole degree Fahrenheit while those measured by the thermopile were measured to the nearest tenth of a degree Celsius, and the lengths of averaging time of the hygrothermograph and thermopile are different. In addition, the temperatures measured at 3.5 feet were not corrected when the thermopile was moved to 5.5 feet.

Gaps in the temperature record were filled by interpolation of the data when only one or two hourly measurements were missing. If a longer period of missing data occurred, readings from the hygrothermograph record were used.

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TOTAL.56  
.09  
.10  
.13  
.17.32  
.61  
.42  
.94  
.58.80  
.18  
.52  
.80  
.16.03  
.01  
.00  
.00  
.48.93  
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TOTAL.00  
.00  
.00  
.00  
.00.00  
.01  
.19  
.20  
.36.28  
.38  
.03  
.00  
.00.00  
.00  
.00  
.00  
.49.93  
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### 1.2.1. Average Hourly Temperature and Temperature Distributions

Table 103. Average Hourly 5.5-foot Temperature (°F). January 1950–December 1964.

The data presented in this table are the average hourly 5.5-foot temperatures for each hour of the day.

Figure 28. Average Hourly 5.5-foot Temperature (°F). January 1950–December 1964.

This figure is based on the data of Table 103 and illustrates graphically the mean diurnal changes in temperature.

Table 104. Daily Average 5.5-foot Temperature (°F) and the Percentile Distribution for Each Month. January 1950–December 1964.

Each entry represents the average of the 15 daily average temperatures for that date. The daily average temperature data were calculated from the 24 hourly temperature observations for each day. If more than four observations were missing in one day, the daily average temperature for that day and year was considered missing. The monthly mean temperature is given in the row labeled "mean" and the 10-, 25-, 50-, 75- and 90-percentile values of the daily average temperatures for each month are presented in the last 5 rows. To illustrate the meaning of percentile entries, the 90th percentile value for June is 77°F. This means that 90 percent of the daily average temperature values in June were equal to or less than 77°F.

It should be pointed out that the Weather Bureau daily average temperature is defined as the average of the daily maximum and minimum. On most days, but by no means all days, this average will agree with an average of hourly temperatures within the limits of accuracy of measurement and exposure.

### 1.2.2. Temperature Extremes and Ranges

Table 105. Average of the Daily Maximum 5.5-foot Temperature (°F) and the Percentile Distribution for Each Month. January 1950–December 1964.

The entries of this table are the averages of the daily maximum temperatures for each calendar date. The monthly mean of the daily maximum temperatures represents the average of all the daily maximum temperatures which occurred in each month. The 10-, 25-, 50-, 75- and 90-percentile values of maximum daily temperatures are also shown.

Table 106. Average of the Daily Minimum 5.5-foot Temperature ( $^{\circ}\text{F}$ ) and the Percentile Distribution for Each Month. January 1950–December 1964.

The structure of this table is similar to that of Table 105.

Figure 29. Monthly Maximum and Minimum 5.5-foot Temperature ( $^{\circ}\text{F}$ ) and the Monthly Average of Daily Maximum and Minimum 5.5-foot Temperatures ( $^{\circ}\text{F}$ ). January 1950–December 1964.

The uppermost and lowermost curves present the monthly maximum and minimum temperatures, respectively. The monthly averages of the daily maximum and minimum temperatures are presented on the two intermediate curves.

Table 107. Percentage Frequency Distribution of the Daily Extreme 5.5-foot Temperatures ( $^{\circ}\text{F}$ ). January 1950–December 1964.

Table 108. Percentage Frequency Distribution of the Times of Daily Extreme 5.5-foot Temperatures ( $^{\circ}\text{F}$ ). January 1950–December 1964.

As might be expected, the maximum temperatures and minimum temperatures most frequently occurred during the afternoon and during the early morning, respectively. The secondary peak in the frequency of maximum and minimum temperatures which occurred at midnight was due to air mass changes accompanying frontal passages. For example, if a cold front passed some time during the day and the temperature began to fall steadily, the minimum temperature for the 24-hour period would occur at midnight. If the minimum or maximum temperature occurred at the beginning of the day, it was recorded as occurring at 0001 hours. If it occurred at the end of the day, it was recorded as occurring at 2400 hours.

Figure 30. Average of the Daily Maximum and Minimum 5.5-foot Temperatures ( $^{\circ}\text{F}$ ) for Each Month and Year. January 1950–December 1964.

Figure 31. Mean 5.5-foot Temperature ( $^{\circ}\text{F}$ ) for Each Month and Year. January 1950–December 1964.

Figure 32. Monthly Maximum and Minimum Temperature ( $^{\circ}\text{F}$ ). January 1950–December 1964.

Figures 30 and 31 present the monthly average of the daily maximum and minimum and the monthly mean temperature for each year. In Figures 30 and 31 there is a fair indication that during the period shown here January temperatures decreased. There

may be a slight indication that this happens also in December and February. However, for the other months the tendency appears to be that of a rise in temperature throughout the period. Figure 32 presents the monthly maximum and minimum temperatures over the entire period.

Figure 33. Annual Maximum and Minimum 5.5-foot Temperature ( $^{\circ}\text{F}$ ). January 1950–December 1964.

This figure shows a plot on normal probability paper of the ordered annual maximum and minimum temperatures. The straight lines drawn through the data are drawn through the mean and standard deviation computed from the data.

Table 109. Highest and Lowest Daily Maximum 5.5-foot Temperature ( $^{\circ}\text{F}$ ) with the Year of Occurrence. January 1950–December 1964.

Table entries are the highest and lowest daily maximum temperatures for each calendar date. For example, the highest daily maximum temperature recorded on January 1 was  $47^{\circ}\text{F}$  in the year 1950 and the lowest was  $12^{\circ}\text{F}$  in 1958.

Table 110. Lowest and Highest Daily Minimum 5.5-foot Temperature ( $^{\circ}\text{F}$ ) with the Year of Occurrence. January 1950–December 1964.

This table is constructed like Table 109 with minimum temperature data replacing maximum temperature.

Table 111. Monthly Maximum and Minimum 5.5-foot Temperature ( $^{\circ}\text{F}$ ) and Range of Monthly Temperature ( $^{\circ}\text{F}$ ). January 1950–December 1964.

This table contains the maximum of the daily maximum and minimum of the daily minimum temperatures for each month and year. The monthly range of temperature, defined as the difference between the monthly maximum and minimum temperatures, is also presented. Although the diurnal temperature ranges were, in general, higher in warm months than in cold months, the monthly temperature ranges as defined here were greater in cold months. This is mostly due to the low minima which occurred with air mass changes resulting from incursions of arctic air. In the 15-year period of record the maximum temperature recorded was  $101^{\circ}\text{F}$  with a minimum of  $-20^{\circ}\text{F}$ , resulting in a temperature range of  $121^{\circ}\text{F}$ .

Table 112. Percentage Frequency Distribution of Range of Daily 5.5-foot Temperature ( $^{\circ}\text{F}$ ). January 1950–December 1964.

The daily temperature range is defined as the difference between the daily maximum and minimum temperatures. This statistic was considered missing if either the maximum or minimum temperature was missing.

The highest frequency of daily ranges greater than 24°F occurs in the spring and fall; smaller daily ranges are prevalent in winter. One observes a higher modal range in summer than in winter.

Table 113. Joint Percentage Frequency Distribution of Range of Daily 5.5-foot Temperature (°F) and the Daily Maximum 5.5-foot Temperature. January 1950–December 1964.

Table 114. Joint Percentage Frequency Distribution of Range of Daily 5.5-foot Temperature (°F) and the Daily Minimum Temperature (°F). January 1950–December 1964.

Range data are considered missing if either the daily maximum or minimum temperature was missing. The maximum and minimum temperature distributions are bimodal just as the hourly temperature distribution. One of the maxima is associated with summer and the other with winter temperatures.

Table 115. Monthly Maximum of the Daily 5.5-foot Temperature Range (°F) Each Year. January 1950–December 1964.

Table 116. Monthly Minimum of the Daily 5.5-foot Temperature Range (°F) Each Year. January 1950–December 1964.

Table 117. Monthly Mean of the Daily 5.5-foot Temperature Range (°F) Each Year. January 1950–December 1964.

Daily temperature range is defined as in Table 112. The mean ranges are higher in summer and lower in winter. A seasonal pattern is also evident in the maximum ranges, i.e., higher values occur in the spring and fall. The data for minimum ranges show higher values in summer.

Figure 34. Maximum, Minimum and Mean Daily 5.5-foot Temperature Range (°F) for Each Month and Year. January 1950–December 1964.

This figure is based on the data in Tables 115, 116, and 117. Daily temperature range is defined as in Table 112.

Table 118. Mean and Percentile Distribution of the Daily 5.5-foot Temperature Range (°F). January 1950–December 1964.

This table gives the mean and 10-, 25-, 50-, 75- and 90-percentile values of the daily temperature range for each month. The distribution of the daily temperature range data for the total period of observations is given in the row labeled "annual." This table shows again the tendency of

greater temperature ranges in summer. Of interest is that the median range in May and June is more than 50 percent greater than in December and January.

Table 119. Percentage Frequency Distribution of 2-hour, 11-hour and 23-hour Range of 5.5-foot Temperature ( $^{\circ}\text{F}$ ) Beginning with Indicated Hour. Total Period. January 1950-December 1964.

This table presents percentage frequency distributions of the 2-hour, 11-hour and 23-hour range of 5.5-foot temperature. The 2-hour range distribution indicates that 85 percent of the ranges of temperature in two hours are less than  $6^{\circ}\text{F}$ . The 11-hour range distribution shows a marked increase in temperature variation. The 50-percentile value of this distribution is in the  $12-14^{\circ}\text{F}$  interval. In the 23-hour range distribution the 50-percentile values has increased only to the  $15-19^{\circ}\text{F}$  interval. This type of information is particularly useful in the design of air conditioning units and other building features.

### 1.2.3. Heating and Cooling Degree Days

A heating degree day is defined as a one-degree departure toward lower temperature of the daily mean temperature from a base temperature of  $65^{\circ}\text{F}$ . Thus, a mean daily temperature of  $60^{\circ}\text{F}$  corresponds to 5 heating degree days. The total accumulated heating degree days throughout a heating season may be used to define the severity of winter weather and is directly related to fuel consumption.

A cooling degree day based on air temperature is defined as a one-degree departure of the daily average temperature toward a higher temperature from a base temperature  $75^{\circ}\text{F}$ . A cooling degree day based on the temperature-humidity index is defined as a one-degree departure of the daily average temperature-humidity index expressed in degrees Fahrenheit above the base of  $60^{\circ}\text{F}$ .<sup>13</sup> The temperature-humidity index is computed from the equation

$$\text{THI} = 0.4(\text{T}_W + \text{T}_A) + 15, \quad (3)$$

where

THI = temperature-humidity index ( $^{\circ}\text{F}$ )

$\text{T}_W$  = wet-bulb temperature ( $^{\circ}\text{F}$ )

$\text{T}_A$  = air temperature ( $^{\circ}\text{F}$ ).

Table 120. Daily Average Heating Degree Day Based on  $65^{\circ}\text{F}$ . January 1950-December 1964.

This table gives the average number of degree days per year for each calendar day. The table entry of January 1, for example, is the average of the number of degree days computed from each of the 15 January 1 daily mean temperatures.

A table entry of zero indicates that this average is less than 0.5 but greater than 0.0 while a blank entry indicates that the daily average temperature always exceeded 65°F on that date.

Table 121. Monthly Number of Heating Degree Days Each Year Based on 65°F. January 1950–December 1964.

Each entry of this table is the total of the number of degree days computed from the daily average temperatures for the specified month and year. The mean number of degree days for each month is given in the row labeled "mean." The annual number of heating degree days is given in the column labeled "total."

Table 122. Daily Average Cooling Degree Day Based on Temperature-Humidity Index of 60°F. January 1950–December 1964.

This table is constructed like Table 120; however, it represents the average number of degrees by which the temperature-humidity index exceeds 60°F.

Table 123. Monthly Number of Cooling Degree Days Each Year Based on an Air Temperature of 75°F. January 1950–December 1964.

This table is constructed like Table 121; however, it is based on cooling degree days with a daily mean dry-bulb temperature of 75°F as reference.

Figure 35. Maximum, Minimum and Mean of the Monthly Number of Heating Degree Days Based on 65°F. January 1950–December 1964.

This graph presents three curves showing the maximum, mean and minimum of the monthly number of heating degree days each year.

Figure 36. Maximum, Minimum and Mean of the Monthly Number of Cooling Degree Days Based on Air Temperature of 75°F. January 1950–December 1964.

This graph presents the curves of the maximum and mean monthly number of cooling degree days each year based on air temperature of 75°F. Since in each month the total number of cooling degree days was zero in at least one year, the minimum curve is represented by the zero line.



1.2.4. Dates of Critical Temperatures and the Distribution of Temperatures above and below Specified Values

Table 124. Latest Date before July 1 and Earliest Date after July 1 on Which the Indicated 5.5-foot Temperatures ( $^{\circ}\text{F}$ ) Occurred. January 1950–December 1964.

This table has two parts, the first presents the last date before July 1 for each year on which a temperature of 16, 20, 24, 28, 32, 40, or  $43^{\circ}\text{F}$  was recorded. The second gives the first dates after July 1 on which these temperatures occurred. The growing season, usually defined as the time between the last and first  $32^{\circ}\text{F}$  temperatures at instrument shelter level,<sup>14-15</sup> may be determined from these tables. The vegetative growing season is considered to be the time during which the shelter temperature remains at  $43^{\circ}\text{F}$  or above. The length of this period also may be determined from these data. Temperatures in the range of 28 to  $32^{\circ}\text{F}$  are considered light freeze temperatures, i.e., light damage to crops occurs. Most plants will be damaged by temperatures in the range of 24 to  $28^{\circ}\text{F}$ , moderate freeze temperatures. Severe freeze occurs below  $24^{\circ}\text{F}$ , where plants not already killed suffer heavy damage.

Table 125. Monthly Average of the Number of Hours with 5.5-foot Temperatures ( $^{\circ}\text{F}$ ) above and below Specified Values. January 1950–December 1964.

This table presents in two sections the average number of hours per year that the hourly value of temperature is above or below various threshold values. The upper portion of the table presents the average number of hours above the threshold values while the lower portion of the table presents the average number of hours below the threshold value. Threshold values are simple multiples of 5 with the exception of 32 and  $43^{\circ}\text{F}$ . The  $32^{\circ}\text{F}$  threshold is a change of state threshold for water. The  $43^{\circ}\text{F}$  threshold is important in agriculture.

Table 126. Monthly Average of the Number of Days with Daily Average 5.5-foot Temperatures ( $^{\circ}\text{F}$ ) above and below Specified Values. January 1950–December 1964.

This table is similar to Table 125 but presents the average number of days per year that the daily average temperature was above or below the specified threshold temperatures.

Table 127. Percentile Distribution, Extremes and Mean of the Daily Average 5.5-foot Temperature ( $^{\circ}\text{F}$ ). January 1950–December 1964.

This table gives the 10, 25-, 50-, 75- and 90-percentile values of the daily average temperature for each year. In addition, the mean, maximum and minimum of the daily average temperature is given.

Figure 37 presents the maximum and minimum of the daily average temperature for each year plotted on normal probability paper. The straight lines are drawn through the mean and computed standard deviation of each set of data.

#### 1.2.5. Persistence of Temperature

Table 128. Frequency Distribution of the Number of Consecutive Hourly 5.5-foot Temperatures ( $^{\circ}\text{F}$ ) below Indicated Values. January 1950-December 1964.

This table presents the frequency of the number of consecutive hours that the hourly temperatures remained below specified values. A table entry is a count of the occurrence of persistences of a specified number of hours as determined from an item count of the number of consecutive hourly observations of temperatures below specified values.

A period of persistence which began in one month and ended in the following month was counted with the data of the month in which it began. The column labeled "missing" contains the frequency of missing data which remained missing for the indicated number of hours. The last row of the table labeled "maximum" gives the maximum number of hours during which the hourly temperature values persisted below the indicated value.

Tables 129 through 132. Frequency Distribution of the Number of Consecutive Hourly 5.5-foot Temperatures ( $^{\circ}\text{F}$ ) above Indicated Values. January 1950-December 1964.

These tables are constructed similarly to Table 128; however, they present the frequency distribution of the number of consecutive hours that the hourly temperatures remained above specified values. A table entry in this case is a count of the occurrence of persistences of a specified number of hours as determined from an item count of the number of consecutive hourly observations of temperature above specified values.

Table 103. Average Hourly 5.5-foot Temperature (°F). January 1950-December 1964

HOUR	MONTH											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	20	23	29	42	52	61	65	64	57	48	35	22
2	19	22	29	41	51	60	64	63	57	47	34	22
3	19	22	28	41	51	60	64	63	56	47	34	22
4	18	22	28	40	50	59	63	62	56	46	33	22
5	18	21	28	40	50	59	63	62	55	46	33	21
6	18	21	27	41	52	62	66	63	55	45	33	21
7	18	21	29	43	55	65	68	66	58	47	33	21
8	18	23	31	46	58	68	72	70	61	50	35	22
9	20	25	33	48	61	70	74	72	65	54	37	23
10	22	27	35	50	63	72	76	75	68	57	40	25
11	24	29	37	52	64	74	77	76	70	59	41	27
12	25	30	38	54	65	75	78	77	71	61	43	28
13	26	31	39	55	66	76	79	78	72	61	44	29
14	26	31	39	55	66	76	79	78	72	62	44	29
15	26	31	39	55	67	76	79	78	72	61	43	29
16	25	30	39	54	66	75	79	78	71	60	42	28
17	24	29	37	53	65	74	78	76	69	57	40	26
18	23	27	35	51	62	72	75	73	65	54	38	26
19	22	26	34	48	59	69	72	70	62	52	37	25
20	21	25	33	46	57	66	69	68	61	51	37	25
21	21	25	32	45	55	64	68	67	60	50	36	24
22	21	24	31	44	54	63	67	66	59	50	36	24
23	20	24	31	43	53	62	66	65	58	49	35	23
24	20	23	30	43	53	62	65	64	58	48	35	23

Table 104. Daily Average 5.5-foot Temperature (°F) and the Percentile Distribution for Each Month. January 1950-December 1964

DAY	MONTH											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	25	21	27	42	55	61	73	72	68	58	46	29
2	28	20	28	45	57	61	72	73	68	59	43	33
3	25	21	30	41	57	62	70	73	69	59	41	36
4	21	26	29	39	57	65	69	72	66	57	41	35
5	24	28	28	44	56	65	68	69	66	55	40	31
6	24	25	30	46	57	65	68	69	65	54	37	29
7	23	24	28	42	53	66	71	71	65	53	38	28
8	24	24	28	39	55	69	69	70	66	53	38	27
9	24	26	31	41	53	68	68	69	69	54	38	23
10	22	25	34	41	52	68	70	69	66	55	39	22
11	22	22	34	43	54	67	71	69	64	55	42	22
12	25	24	35	43	57	67	72	68	63	56	41	19
13	25	27	34	46	57	67	69	68	63	55	45	19
14	26	27	34	47	60	65	70	69	62	55	46	20
15	23	26	30	47	58	66	71	70	61	56	47	19
16	18	25	31	49	57	69	72	69	62	57	43	20
17	21	25	31	50	57	67	71	69	67	55	39	22
18	21	28	32	49	55	70	72	67	64	52	38	22
19	24	25	34	48	60	68	72	68	63	50	36	22
20	21	25	33	50	59	67	72	69	61	49	35	23
21	21	24	34	54	61	68	73	69	61	51	34	22
22	18	24	34	52	59	68	73	68	60	54	36	24
23	15	28	37	50	59	68	70	69	59	51	32	25
24	20	29	36	53	61	70	71	68	60	46	30	23
25	20	29	35	51	61	70	72	68	60	48	33	25
26	19	29	34	52	60	71	73	70	59	48	32	25
27	16	28	40	53	59	71	75	73	58	47	31	23
28	17	27	39	51	59	72	73	74	57	46	28	24
29	17	26	38	52	62	73	73	73	59	45	25	24
30	15	28	38	54	65	73	72	72	57	48	25	20
31	19	30	40	66	66	71	70	70	47	47		
MEAN	21	26	33	47	58	68	71	70	63	53	37	25
10	4	11	21	34	46	57	64	63	53	40	23	8
25	13	20	28	39	51	63	68	66	57	46	30	18
50	23	27	33	46	58	68	71	70	62	52	38	27
75	30	32	38	54	65	73	75	73	68	59	45	32
90	34	36	45	61	70	77	77	77	74	65	52	39

Table 105. Average of the Daily Maximum 5.5-foot Temperature (°F) and the Percentile Distribution for Each Month. January 1950-December 1964

DAY	MONTH											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	31	27	36	52	68	72	84	82	77	70	56	37
2	34	28	36	55	67	71	84	84	79	70	52	43
3	31	29	39	50	69	73	78	84	80	70	52	43
4	29	35	38	48	69	77	78	81	77	67	49	44
5	32	36	36	55	66	77	79	79	78	65	49	38
6	31	33	39	58	69	76	79	79	77	65	45	37
7	30	30	35	52	63	77	81	81	76	63	47	35
8	31	31	36	49	66	80	79	79	77	64	47	33
9	32	33	39	52	64	79	78	79	79	66	47	29
10	31	33	43	51	62	79	81	79	77	67	49	30
11	30	29	41	54	65	77	81	78	75	66	53	30
12	33	31	41	54	69	76	81	78	74	68	50	26
13	34	34	41	56	68	76	80	78	74	68	55	27
14	32	34	42	59	72	74	81	80	73	67	55	28
15	32	33	39	58	70	78	82	81	73	68	55	27
16	26	31	41	60	69	79	83	79	74	70	53	29
17	29	33	40	61	67	77	81	80	74	67	47	30
18	30	36	39	61	71	81	83	78	76	64	47	31
19	32	33	42	59	71	79	83	79	74	61	43	29
20	29	34	41	61	70	77	81	79	71	60	43	28
21	29	32	42	66	72	79	83	80	73	63	42	29
22	26	34	43	64	71	79	83	79	71	65	42	31
23	23	35	44	63	69	78	80	79	69	61	43	31
24	28	38	41	63	73	82	81	79	71	57	37	31
25	29	37	41	63	74	81	82	78	72	58	41	33
26	26	39	44	62	70	82	83	81	70	57	40	31
27	23	35	51	63	69	82	85	84	69	57	40	31
28	24	35	50	60	69	82	83	84	69	55	37	32
29	24	49	62	73	85	82	84	70	56	33	30	25
30	24	48	65	76	84	83	83	68	58	34	25	30
31	27	49	77	81	81	81	81	81	57	37	31	31
MEAN	29	33	41	58	69	78	81	80	74	64	46	32
10	12	20	28	42	55	66	73	72	62	48	29	16
25	22	28	33	48	61	73	77	76	67	55	37	25
50	31	33	40	57	70	79	82	80	73	64	46	32
75	36	39	48	67	78	85	86	85	80	72	55	39
90	42	45	57	76	83	87	89	87	78	63	48	39

Table 106. Average of the Daily Minimum 5.5-foot Temperature (°F) and the Percentile Distribution for Each Month. January 1950-December 1964

DAY	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1	18	13	19	33	42	50	62	62	58	46	37	20	
2	22	11	21	35	45	50	61	63	62	57	48	36	25
3	15	13	22	31	46	49	60	62	58	47	31	29	
4	14	16	21	31	45	53	59	63	56	46	34	26	
5	16	20	21	33	47	52	58	59	54	45	31	24	
6	16	18	21	36	43	53	57	60	54	44	28	21	
7	16	15	20	33	41	55	58	60	54	44	28	21	
8	17	17	20	29	44	57	59	60	55	42	30	18	
9	16	18	24	31	43	57	57	58	57	43	29	17	
10	14	17	25	32	43	58	57	58	56	42	28	13	
11	13	15	27	33	44	55	60	59	54	45	31	16	
12	16	17	26	33	45	58	61	59	51	43	32	13	
13	16	18	25	35	46	56	60	57	52	43	34	10	
14	19	19	24	35	48	56	60	59	50	44	36	11	
15	14	17	23	35	47	55	59	59	51	46	37	10	
16	11	18	23	38	46	56	61	59	50	45	33	11	
17	11	18	22	39	47	56	62	58	51	44	31	15	
18	13	19	23	39	46	57	62	56	53	42	30	14	
19	15	17	26	38	48	58	62	57	53	40	28	14	
20	13	15	24	39	47	57	62	59	51	39	27	15	
21	13	16	25	43	48	58	63	60	51	41	25	15	

Figure 28. Average Hourly 5.5-foot Temperature (°F).  
January 1950–December 1964

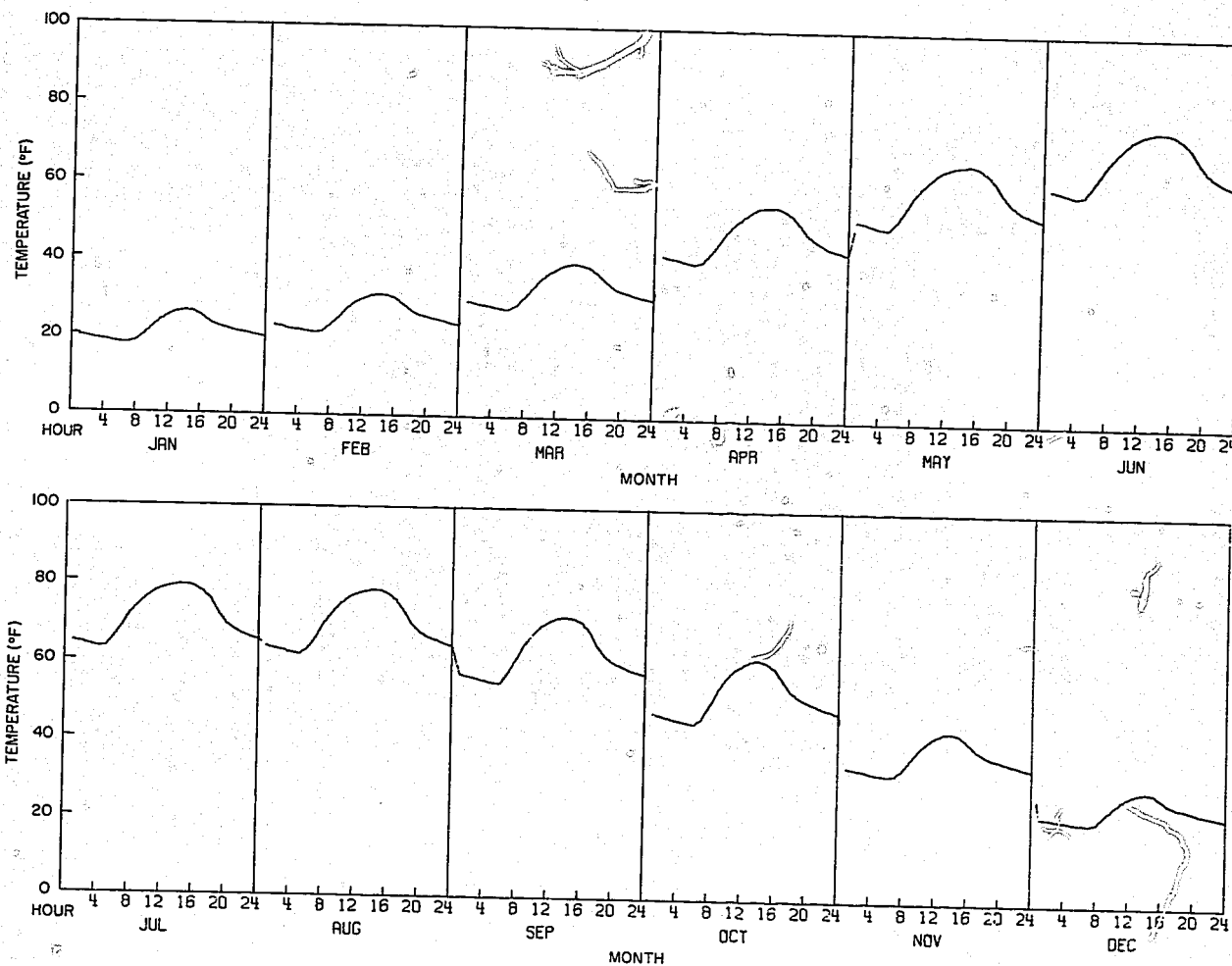


Figure 29. Monthly Maximum and Minimum 5.5-foot  
Temperatures (°F) and the Monthly Average of Daily  
Maximum and Minimum 5.5-foot Temperatures (°F).  
January 1950–December 1964

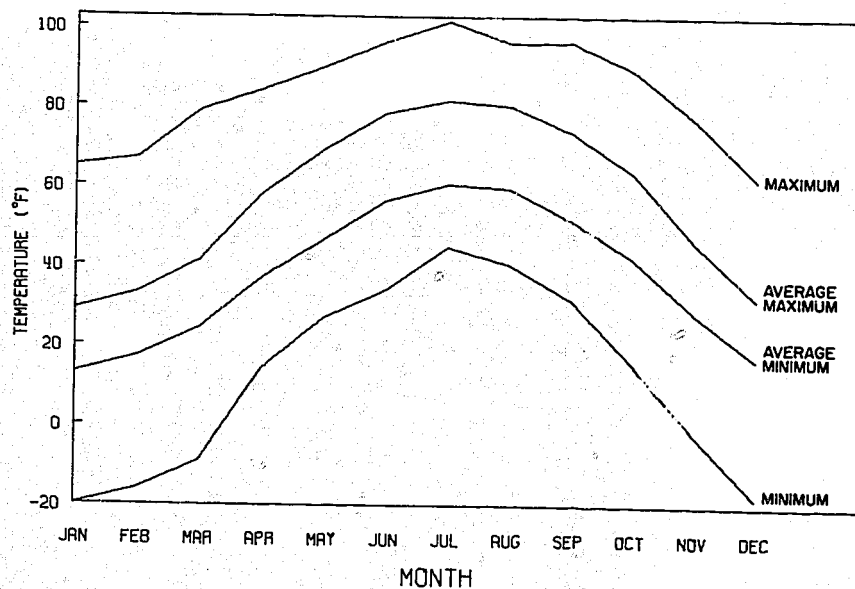


Table 107. Percentage Frequency Distribution of the Daily Extreme  
5.5-foot Temperatures (°F). January 1950–December 1964.  
Number of Observations, 5479

		MONTH												TOTAL	CUMUL TOTAL
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	CUMUL TOTAL
MAXIMUM TEMPERATURE (°F)	≥95	0.00	0.00	0.00	0.00	0.00	0.07	0.07	0.05	0.07	0.00	0.00	0.00	0.27	0.27
	90-94	0.00	0.00	0.00	0.00	0.04	0.68	0.53	0.66	0.40	0.00	0.00	0.00	2.30	2.57
	85-89	0.00	0.00	0.00	0.00	0.51	1.39	2.34	1.50	0.68	0.07	0.00	0.00	6.48	9.05
	80-84	0.00	0.00	0.00	0.36	1.04	1.86	2.52	2.52	0.99	0.66	0.00	0.00	9.95	19.00
	75-79	0.00	0.00	0.02	0.60	1.44	1.73	1.97	2.30	1.64	0.84	0.02	0.00	10.57	29.56
	70-74	0.00	0.00	0.09	0.60	1.39	1.17	0.77	1.00	1.81	1.06	0.24	0.00	8.12	37.68
	65-69	0.02	0.02	0.20	0.84	1.11	0.66	0.24	0.40	1.33	1.53	0.31	0.00	6.66	44.34
	60-64	0.02	0.04	0.29	1.15	1.30	0.46	0.05	0.04	0.93	1.13	0.71	0.11	6.22	50.57
	55-59	0.09	0.09	0.64	1.04	0.86	0.11	0.00	0.00	0.29	1.30	0.97	0.20	5.58	56.15
	50-54	0.16	0.31	0.57	1.17	0.53	0.07	0.00	0.00	0.07	0.86	1.09	0.36	5.20	61.35
	45-49	0.35	0.38	1.22	1.02	0.20	0.00	0.00	0.00	0.00	0.64	1.20	0.49	5.51	66.85
	40-45	0.75	1.00	1.33	0.71	0.05	0.00	0.00	0.00	0.00	0.22	1.11	0.80	5.99	72.85
	35-39	1.15	1.59	1.73	0.44	0.02	0.00	0.00	0.00	0.00	0.13	0.93	1.31	7.30	80.15
	30-34	2.23	1.97	1.24	0.05	0.00	0.00	0.00	0.00	0.00	0.02	0.80	1.82	8.14	88.29
	25-29	1.24	0.95	0.60	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.51	1.30	4.62	92.90
	20-24	0.60	0.58	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.93	2.63	95.53
	15-19	0.71	0.35	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.38	1.64	97.17
	10-14	0.47	0.22	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.29	1.04	98.21
	5-9	0.38	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.31	0.84	99.05
	0-4	0.18	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.31	99.36
≤-1	0.11	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.15	99.51	
MISSING		0.04	0.05	0.05	0.20	0.00	0.02	0.00	0.02	0.00	0.04	0.02	0.05	0.49	100.00
MINIMUM TEMPERATURE (°F)	≥75	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.02	0.00	0.00	0.00	0.00	0.07	0.07
	70-74	0.00	0.00	0.00	0.00	0.00	0.20	0.38	0.35	0.09	0.00	0.00	0.00	1.02	1.09
	65-69	0.00	0.00	0.00	0.00	0.20	1.11	1.61	1.50	0.46	0.05	0.00	0.00	4.93	6.02
	60-64	0.00	0.00	0.00	0.07	0.66	1.75	2.96	2.52	1.26	0.24	0.00	0.00	9.45	15.47
	55-59	0.00	0.00	0.00	0.18	0.64	1.57	2.48	2.34	1.31	0.66	0.11	0.00	9.29	24.76
	50-54	0.00	0.00	0.02	0.60	1.62	1.72	0.86	1.41	1.77	1.02	0.13	0.02	9.16	33.92
	45-49	0.02	0.02	0.09	0.80	1.73	1.28	0.20	0.29	1.48	1.46	0.42	0.02	7.81	41.73
	40-44	0.02	0.02	0.20	1.31	1.61	0.38	0.00	0.05	1.24	1.50	0.57	0.09	6.99	48.72
	35-39	0.16	0.18	0.46	1.53	1.44	0.11	0.00	0.00	0.49	1.72	0.95	0.24	7.28	56.00
	30-34	0.51	0.71	1.77	1.75	0.53	0.02	0.00	0.00	0.11	1.04	1.55	0.93	8.92	64.93
	25-29	1.13	1.50	1.92	1.17	0.05	0.00	0.00	0.00	0.00	0.51	1.61	1.22	9.11	74.03
	20-24	1.19	1.53	1.73	0.44	0.00	0.00	0.00	0.00	0.00	0.22	1.42	1.41	7.94	81.97
	15-19	1.33	1.00	0.93	0.13	0.00	0.00	0.00	0.00	0.00	0.05	0.64	1.17	5.26	87.23
	10-14	1.00	0.86	0.71	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.46	1.02	4.07	91.30
	5-9	0.69	0.62	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.80	2.65	93.94
	0-4	0.84	0.33	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.51	1.92	95.86
	-5--1	0.78	0.47	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.55	1.95	97.81
	-10--6	0.40	0.27	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.97	98.78
	-15--11	0.24	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.55	99.32
	≤-16	0.15	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.22	99.54
MISSING		0.04	0.05	0.05	0.20	0.00	0.02	0.00	0.02	0.00	0.02	0.00	0.05	0.46	100.00

Table 108. Percentage Frequency Distribution of the Times of Daily Extreme 5.5-foot Temperatures (°F). January 1950–December 1964.  
Number of Observations, 5479

		MONTH												TOTAL	CUMUL TOTAL
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
TIME OF MAXIMUM TEMPERATURE	0001-0100	0.80	0.53	0.53	0.27	0.15	0.15	0.02	0.07	0.15	0.20	0.42	0.77	4.05	4.05
	0101-0200	0.05	0.00	0.09	0.04	0.04	0.00	0.02	0.00	0.02	0.09	0.13	0.13	0.60	4.65
	0201-0300	0.09	0.05	0.05	0.04	0.02	0.04	0.00	0.05	0.00	0.09	0.09	0.09	0.62	5.27
	0301-0400	0.09	0.05	0.02	0.00	0.00	0.00	0.00	0.00	0.07	0.02	0.04	0.09	0.38	5.66
	0401-0500	0.02	0.05	0.02	0.02	0.00	0.00	0.02	0.00	0.00	0.02	0.02	0.00	0.16	5.82
	0501-0600	0.13	0.00	0.00	0.04	0.02	0.00	0.00	0.00	0.02	0.02	0.02	0.04	0.27	6.09
	0601-0700	0.02	0.04	0.00	0.00	0.00	0.02	0.02	0.00	0.00	0.00	0.04	0.02	0.15	6.24
	0701-0800	0.00	0.05	0.05	0.00	0.04	0.04	0.02	0.00	0.02	0.00	0.00	0.00	0.22	6.46
	0801-0900	0.00	0.02	0.00	0.11	0.04	0.02	0.05	0.05	0.04	0.00	0.04	0.07	0.44	6.90
	0901-1000	0.07	0.11	0.13	0.07	0.18	0.09	0.05	0.09	0.15	0.07	0.11	0.02	1.15	8.05
	1001-1100	0.07	0.24	0.27	0.26	0.31	0.20	0.26	0.18	0.11	0.38	0.22	0.20	2.70	10.75
	1101-1200	0.49	0.47	0.69	0.57	0.36	0.62	0.44	0.33	0.40	0.64	0.58	0.51	6.11	16.86
	1201-1300	1.04	1.00	0.95	0.75	0.64	1.00	0.88	0.91	1.09	1.08	1.33	1.17	11.84	28.70
	1301-1400	1.72	1.46	1.44	1.46	1.37	1.24	1.73	2.72	2.77	2.70	2.52	1.72	22.85	51.55
	1401-1500	1.86	1.88	2.14	1.88	2.28	1.90	2.19	1.86	2.19	2.35	1.70	1.75	23.98	75.53
	1501-1600	0.71	0.80	1.17	1.57	2.06	2.06	2.08	1.72	1.02	0.57	0.33	0.46	14.54	90.07
	1601-1700	0.18	0.16	0.40	0.60	0.64	0.68	0.58	0.42	0.07	0.04	0.07	0.16	4.01	94.09
	1701-1800	0.07	0.07	0.07	0.07	0.20	0.09	0.13	0.04	0.04	0.02	0.09	0.11	1.00	95.09
	1801-1900	0.04	0.02	0.07	0.04	0.02	0.05	0.00	0.02	0.00	0.00	0.02	0.07	0.35	95.44
	1901-2000	0.13	0.02	0.05	0.02	0.00	0.00	0.00	0.00	0.00	0.02	0.05	0.11	0.40	95.84
	2001-2100	0.11	0.04	0.04	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.15	0.42	96.26
2101-2200	0.05	0.07	0.05	0.02	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.09	0.33	96.59	
2201-2300	0.09	0.05	0.04	0.00	0.07	0.00	0.00	0.00	0.04	0.00	0.02	0.07	0.38	96.97	
2301-2400	0.62	0.47	0.15	0.18	0.05	0.00	0.00	0.00	0.02	0.11	0.29	0.64	2.54	99.51	
MISSING	0.04	0.05	0.05	0.20	0.00	0.02	0.00	0.02	0.00	0.04	0.02	0.05	0.49	100.00	
TIME OF MINIMUM TEMPERATURE	0001-0100	1.08	0.97	0.62	0.73	0.73	0.62	0.51	0.24	0.36	0.31	0.60	1.15	7.92	7.92
	0101-0200	0.31	0.24	0.33	0.27	0.40	0.44	0.47	0.44	0.31	0.29	0.36	0.38	4.25	12.17
	0201-0300	0.33	0.35	0.38	0.47	0.49	0.53	0.75	0.46	0.33	0.31	0.40	0.20	5.00	17.17
	0301-0400	0.36	0.40	0.64	0.51	0.95	1.20	0.80	0.84	0.57	0.47	0.51	0.31	7.57	24.74
	0401-0500	0.42	0.51	0.55	1.20	2.41	2.65	2.63	1.81	1.17	0.73	0.51	0.36	14.95	39.69
	0501-0600	0.51	0.64	1.46	1.55	0.60	0.20	0.44	1.88	2.24	1.97	0.71	0.64	12.85	52.54
	0601-0700	0.93	1.28	1.30	0.26	0.07	0.07	0.07	0.07	0.40	1.50	1.55	1.08	8.58	61.11
	0701-0800	1.19	0.36	0.16	0.15	0.02	0.04	0.05	0.04	0.02	0.09	0.36	0.93	3.41	64.53
	0801-0900	0.11	0.02	0.07	0.13	0.02	0.02	0.04	0.02	0.02	0.00	0.05	0.13	0.62	65.15
	0901-1000	0.02	0.05	0.05	0.02	0.02	0.00	0.00	0.02	0.02	0.00	0.02	0.11	0.33	65.47
	1001-1100	0.05	0.00	0.02	0.00	0.00	0.02	0.02	0.02	0.00	0.02	0.00	0.02	0.16	65.64
	1101-1200	0.00	0.00	0.00	0.04	0.00	0.00	0.02	0.02	0.02	0.00	0.02	0.00	0.11	65.75
	1201-1300	0.04	0.00	0.04	0.02	0.02	0.00	0.02	0.00	0.02	0.02	0.02	0.04	0.22	65.97
	1301-1400	0.04	0.02	0.02	0.02	0.00	0.02	0.02	0.00	0.00	0.00	0.00	0.02	0.15	66.11
	1401-1500	0.00	0.02	0.00	0.00	0.04	0.04	0.00	0.00	0.02	0.02	0.00	0.00	0.13	66.24
	1501-1600	0.00	0.02	0.00	0.04	0.02	0.04	0.02	0.04	0.00	0.02	0.02	0.02	0.22	66.46
	1601-1700	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.02	0.00	0.02	0.07	0.00	0.15	66.61
	1701-1800	0.04	0.04	0.02	0.04	0.02	0.02	0.05	0.00	0.00	0.04	0.04	0.07	0.36	66.97
	1801-1900	0.02	0.07	0.07	0.07	0.04	0.04	0.00	0.00	0.02	0.05	0.09	0.11	0.58	67.55
	1901-2000	0.15	0.13	0.04	0.11	0.00	0.00	0.04	0.04	0.04	0.04	0.07	0.04	0.68	68.23
	2001-2100	0.05	0.02	0.18	0.05	0.15	0.05	0.04	0.00	0.05	0.09	0.07	0.07	0.84	69.07
2101-2200	0.29	0.05	0.11	0.22	0.16	0.15	0.13	0.24	0.15	0.24	0.27	0.15	2.15	71.22	
2201-2300	0.40	0.31	0.33	0.26	0.40	0.35	0.44	0.27	0.40	0.44	0.15	0.38	4.12	75.35	
2301-2400	2.14	2.17	2.04	1.84	1.93	1.72	1.93	2.03	2.06	1.81	2.30	2.23	24.20	99.54	
MISSING	0.04	0.05	0.05	0.20	0.00	0.02	0.00	0.02	0.00	0.02	0.00	0.05	0.46	100.00	

Figure 30. Average of Daily Maximum and Minimum 5.5-foot Temperatures (°F) for Each Month and Year. January 1950-December 1964

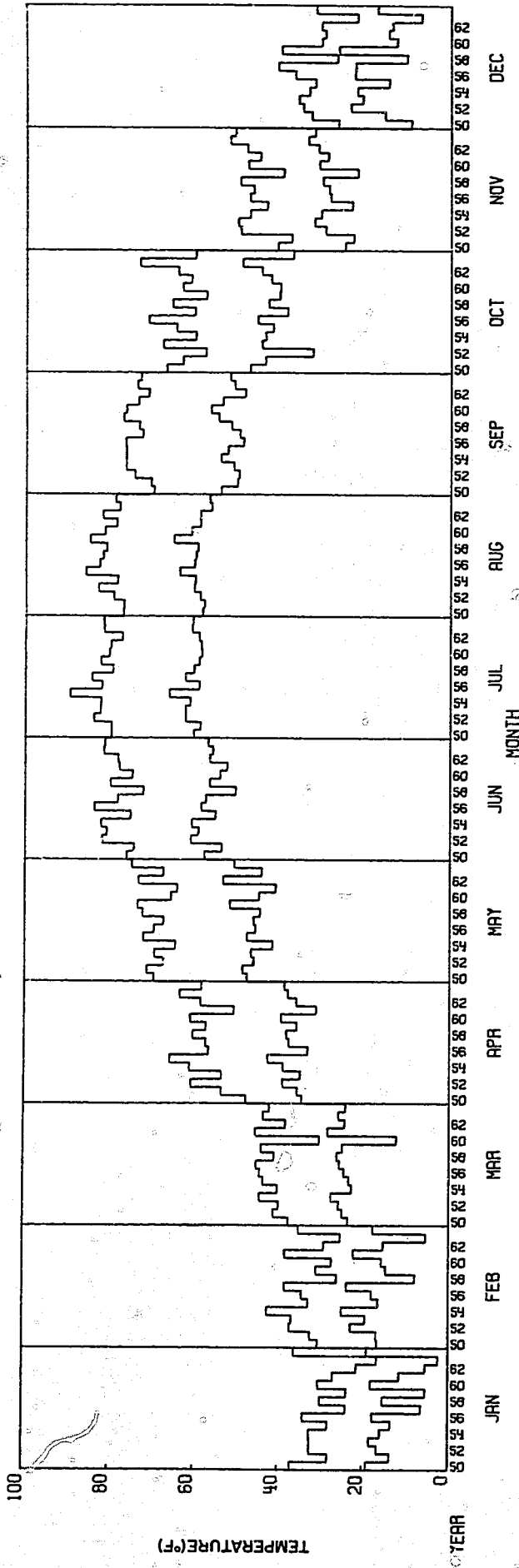


Figure 31. Mean 5.5-foot Temperature (°F) for Each Month and Year. January 1950-December 1964

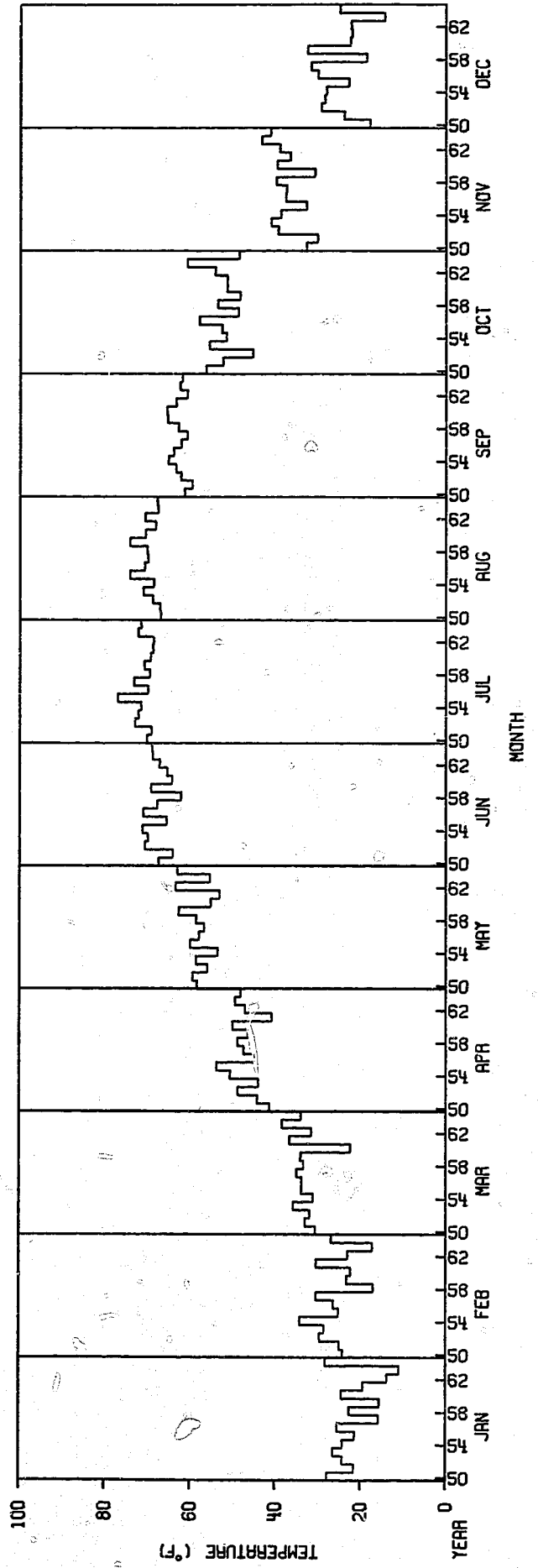


Figure 32. Monthly Maximum and Minimum 5.5-foot Temperature (°F).  
January 1950–December 1964

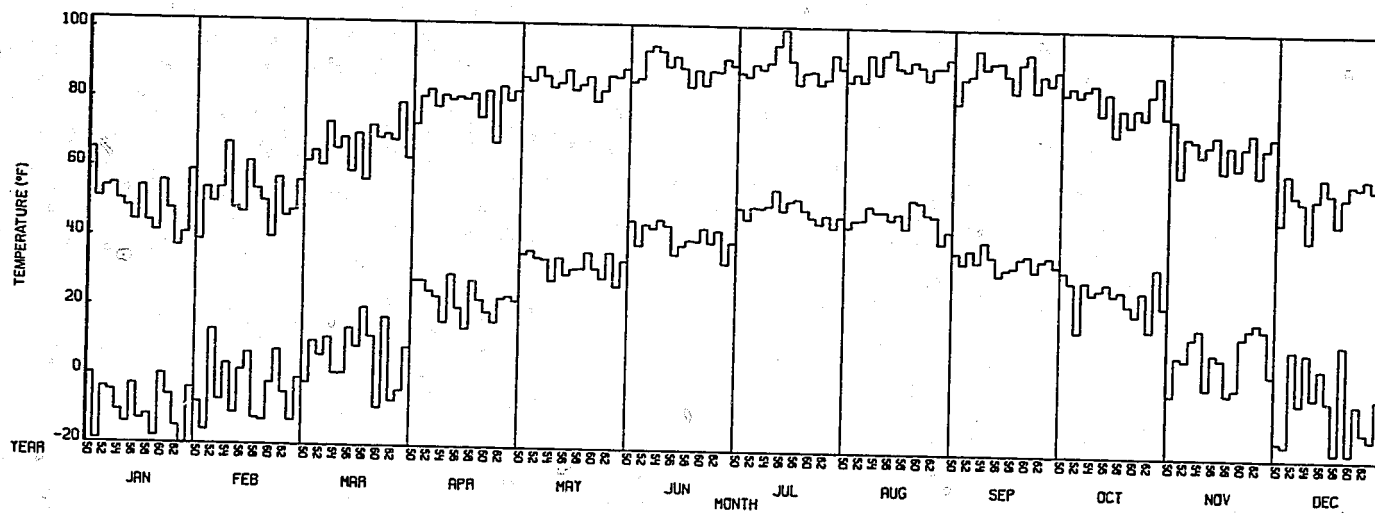


Figure 33. Annual Maximum and Minimum 5.5-foot Temperature (°F). January 1950–  
December 1964

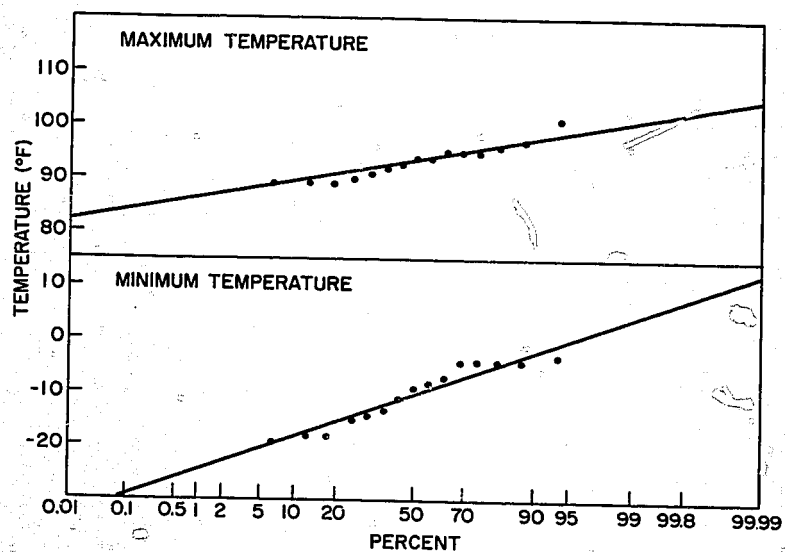




Table 109. Highest and Lowest Daily Maximum 5.5-foot Temperature (°F) with the Year of Occurrence. January 1950–December 1964

DAY	JAN YEAR		FEB YEAR		MAR YEAR		APR YEAR		MAY YEAR		JUN YEAR		JUL YEAR		AUG YEAR		SEP YEAR		OCT YEAR		NOV YEAR		DEC YEAR	
1 HIGH	47	50	44	52	57	56	78	63	86	51	87	51	101	56	92	55	96	53	83	52	77	50	60	62
LOW	12	58	3	51	18	62	36	51	51	61	61	56	72	59	76	54	62	51	49	61	32	54	22	64
2 HIGH	57	50	41	54	62	61	80	63	86	59	85	63	90	52	94	55	96	53	85	53	73	61	61	51
LOW	15	58	12	51	10	50	39	62	55	61	57	62	76	59	65	50	63	51	50	61	26	51	27	54
3 HIGH	43	55	37	52	59	55	81	56	85	55	87	63	94	55	94	64	93	53	87	54	72	64	59	61
LOW	11	58	14	63	22	54	26	54	45	54	59	54	66	63	73	50	65	52	57	50	25	51	23	63
4 HIGH	41	55	46	62	55	56	59	59	89	52	88	53	94	55	96	56	93	60	86	51	67	64	59	56
LOW	-2	59	26	61	17	60	39	52	50	54	54	51	63	61	73	51	66	63	52	50	23	51	28	63
5 HIGH	48	55	52	64	56	56	72	56	90	52	86	63	90	55	88	55	91	54	81	63	69	56	61	56
LOW	5	59	16	59	16	60	40	52	47	54	61	51	62	61	69	52	65	62	48	52	30	51	21	64
6 HIGH	41	61	53	64	65	51	74	56	83	59	89	52	88	57	86	63	92	60	89	63	61	56	62	51
LOW	13	53	5	62	15	60	39	61	54	58	66	51	69	64	72	61	65	56	45	52	27	59	16	58
7 HIGH	41	60	39	56	51	50	72	54	84	64	90	52	92	57	88	64	95	60	79	63	59	63	58	63
LOW	14	51	6	51	16	55	35	56	48	60	64	60	69	54	73	59	65	51	45	52	30	51	12	58
8 HIGH	42	55	44	54	53	55	64	55	87	63	91	64	96	55	87	57	92	59	78	56	63	64	56	52
LOW	13	62	6	51	26	60	34	50	42	60	65	51	71	61	67	54	65	51	53	51	29	51	11	58
9 HIGH	44	50	44	54	60	55	77	52	86	63	91	64	85	55	87	57	93	55	78	58	68	64	52	52
LOW	-4	62	7	58	22	60	34	50	40	60	59	55	70	56	67	64	59	57	42	64	23	60	-1	58
10 HIGH	49	50	50	52	69	55	77	55	80	53	92	56	86	50	89	58	90	64	84	62	64	64	47	59
LOW	1	62	10	58	28	60	38	59	39	60	60	55	69	60	68	60	63	58	46	64	29	50	9	58
11 HIGH	41	61	43	51	58	53	78	64	83	56	92	56	89	57	85	56	88	52	84	62	71	64	46	59
LOW	7	62	-1	55	22	60	41	52	46	60	59	63	65	51	68	50	63	64	46	59	32	50	5	62
12 HIGH	56	60	47	52	60	57	75	55	89	56	93	56	91	54	89	56	89	52	84	56	67	64	40	64
LOW	11	54	7	55	24	50	38	51	55	52	53	55	68	64	61	64	63	53	53	59	31	59	9	58
13 HIGH	51	60	50	54	70	57	76	60	85	56	92	56	88	56	88	59	93	56	84	56	66	54	49	57
LOW	6	57	21	63	23	50	38	51	43	53	55	70	63	65	64	64	57	63	48	59	34	59	6	58
14 HIGH	52	52	59	54	69	57	74	56	83	58	90	54	91	54	89	59	82	58	81	62	72	56	46	57
LOW	3	57	19	63	25	62	39	52	54	59	58	60	70	60	69	62	61	61	49	61	23	59	7	63
15 HIGH	55	53	67	54	53	64	73	54	84	62	90	54	90	56	90	57	88	55	84	62	70	55	52	59
LOW	-2	63	15	63	25	62	36	51	53	59	61	61	65	62	72	60	61	64	47	54	34	59	9	63
16 HIGH	45	52	42	61	63	64	83	64	86	62	90	57	89	53	87	55	88	55	84	56	68	53	50	59
LOW	1	57	9	58	29	60	34	51	52	52	64	64	69	62	71	51	58	59	47	52	31	51	0	51
17 HIGH	54	52	49	61	60	53	82	64	87	62	90	57	90	64	88	55	90	55	84	50	72	52	45	62
LOW	5	62	8	58	27	60	36	53	54	52	58	50	72	56	66	54	60	59	46	52	11	59	9	53
18 HIGH	51	51	57	61	60	54	80	55	90	64	91	54	89	54	91	55	90	55	82	53	70	53	53	57
LOW	8	62	14	58	27	60	42	53	56	61	53	50	74	58	65	50	62	64	47	54	27	51	8	63
19 HIGH	48	52	58	54	64	59	79	57	86	51	95	53	90	55	92	55	90	55	81	53	71	53	53	57
LOW	9	63	10	59	24	51	39	53	48	57	64	50	73	58	70	63	59	62	37	60	29	61	2	63
20 HIGH	50	54	57	54	59	59	79	52	82	62	96	53	92	54	93	55	88	59	82	53	61	53	50	53
LOW	3	63	19	59	27	51	41	59	54	57	63	52	64	50	66	50	57	62	42	52	31	64	1	63
21 HIGH	54	57	50	61	73	53	78	52	83	55	93	56	91	55	95	55	84	59	82	53	61	63	50	57
LOW	10	61	1	63	27	51	48	59	55	63	64	63	71	58	70	61	58	53	46	60	15	64	3	60
22 HIGH	56	64	49	61	61	53	83	60	89	56	88	64	91	52	91	59	90	56	82	53	61	63	56	57
LOW	0	63	18	63	26	55	47	56	51	63	63	51	75	51	67	52	58	51	52	64	24	56	1	60
23 HIGH	46	64	50	61	66	59	83	60	88	64	90	56	88	64	91	62	80	59	83	63	57	55	51	57
LOW	-6	63	20	63	18	63	47	56	52	56	68	61	74	62	64	61	62	61	43	62	26	56	7	53
24 HIGH	62	50	61	57	72	59	83	60	87	50	90	56	90	56	92	59	84	58	80	63	49	64	48	64
LOW	-3	63	19	50	22	63	48	50	61	60	72	61	72	53	70	63	53	50	43	60	5	50	16	62
25 HIGH	65	50	59	57	66	54	82	62	85	53	95	54	88	60	93	59	85	56	76	56	57	52	43	57
LOW	7	63	12	50	18	63	43	61	56	55	66	58	72	59	67	58	53	61	34	62	28	50	18	50
26 HIGH	49	54	56	64	70	61	83	62	82	53	90	63	96	55	91	53	80	53	82	63	61	60	51	59
LOW	1	63	11	63	21	55	43	53	46	61	71	58	72	62	73	63	58	57	38	59	25	58	6	62
27 HIGH	36	53	50	59	67	61	81	62	81	58	91	63	97	55	92	53	86	54	75	55	62	57	55	59
LOW	2	55	22	60	32	55	39	50	55	51	73	50	76	62	69	57	56	64	40	59	24	58	10	50
28 HIGH	40	50	44	61	68	62	81	51	81	59	95	52	93	55	93	55	87	53	72	50	61	60	50	59
LOW	5	63	22	62	34	64	41	50	59	64	70	51	67	62	75	50	52	61	37	52	14	55	7	61
29 HIGH	38	64	49	64	79	63	79	51	87	56	93	52	93	55	93	53	95	53	75	56	58	62	44	64
LOW	-2	51	13	60	27	64	40	56	60	64	72	50	68	62	75	50	59	51	41	54	14	64	6	63
30 HIGH	43	64		72	63	84	62	87	53	93	63	92	55	9										

Table 110. Lowest and Highest Daily Minimum 5.5-foot Temperature (°F) with the Year of Occurrence. January 1950-December 1964

DAY	JAN YEAR	FEB YEAR	MAR YEAR	APR YEAR	MAY YEAR	JUN YEAR	JUL YEAR	AUG YEAR	SEP YEAR	OCT YEAR	NOV YEAR	DEC YEAR
1 HIGH	43	50	34	51	63	58	51	64	61	73	53	69
1 LOW	-4	64	-13	51	-7	62	18	54	27	63	39	56
2 HIGH	45	50	28	54	33	64	60	56	59	51	65	63
2 LOW	-6	58	-16	51	-2	50	16	61	29	61	36	56
3 HIGH	33	55	31	52	41	64	45	56	63	59	60	55
3 LOW	-12	58	-8	63	3	50	16	54	30	54	37	56
4 HIGH	37	55	32	62	36	61	41	58	63	59	64	55
4 LOW	-15	59	-1	58	5	60	21	54	28	54	42	51
5 HIGH	33	55	35	53	36	50	42	55	65	59	63	63
5 LOW	-18	59	0	59	-4	60	26	53	29	54	39	51
6 HIGH	27	61	31	50	40	51	54	54	60	63	64	65
6 LOW	-5	53	-8	59	-9	60	27	60	30	54	40	58
7 HIGH	28	60	30	50	33	50	48	59	61	64	67	63
7 LOW	-2	53	-6	51	1	55	23	61	31	54	42	58
8 HIGH	28	63	31	56	31	64	39	53	65	63	65	52
8 LOW	-4	62	-10	51	2	60	19	61	32	56	45	60
9 HIGH	37	50	31	55	38	55	45	53	54	63	67	64
9 LOW	-14	62	-13	58	11	53	23	64	34	54	44	60
10 HIGH	29	63	30	53	38	55	47	54	59	59	69	63
10 LOW	-15	62	-9	58	7	60	19	60	32	61	47	64
11 HIGH	27	60	32	51	39	57	51	55	61	56	67	59
11 LOW	-10	62	-11	55	14	60	23	59	33	60	45	58
12 HIGH	38	60	29	62	41	53	51	55	63	56	67	54
12 LOW	-6	63	-5	58	6	60	14	57	35	54	43	58
13 HIGH	35	60	32	59	45	57	56	55	66	56	68	56
13 LOW	-13	57	-7	55	14	56	19	57	34	60	43	62
14 HIGH	36	53	40	54	31	61	51	60	63	62	68	54
14 LOW	-13	57	-2	63	9	60	20	57	35	64	40	59
15 HIGH	29	61	38	54	31	53	50	54	68	62	68	54
15 LOW	-16	63	-8	63	13	62	25	62	36	59	43	61
16 HIGH	27	52	30	54	35	63	55	60	65	62	74	52
16 LOW	-11	63	-12	58	16	62	23	62	33	56	40	61
17 HIGH	29	51	37	61	33	53	55	64	67	62	73	57
17 LOW	-11	54	-12	58	10	64	28	61	39	52	46	59
18 HIGH	29	51	32	54	37	53	48	52	63	62	71	54
18 LOW	-7	62	-8	58	8	64	24	53	35	55	43	58
19 HIGH	33	64	35	55	38	59	47	57	66	62	72	53
19 LOW	-3	62	-4	59	7	60	23	53	35	54	46	59
20 HIGH	32	64	36	54	34	59	58	57	63	59	75	53
20 LOW	-9	62	-4	59	12	60	23	56	35	54	44	61
21 HIGH	34	64	29	54	44	53	57	52	61	59	69	54
21 LOW	-20	63	-13	63	8	60	27	59	36	61	38	63
22 HIGH	39	64	31	57	43	53	52	60	62	64	68	57
22 LOW	-9	59	-13	63	13	60	26	56	33	61	34	63
23 HIGH	39	64	37	61	36	53	63	60	68	64	74	50
23 LOW	-19	63	1	63	-2	63	20	56	33	63	48	59
24 HIGH	33	50	36	57	35	59	62	60	65	50	75	52
24 LOW	-14	63	-1	50	0	63	24	56	30	56	46	61
25 HIGH	32	50	49	57	37	54	57	57	61	53	74	52
25 LOW	-12	63	-8	50	-4	63	32	58	35	61	49	61
26 HIGH	28	54	38	51	47	61	59	57	63	59	68	59
26 LOW	-6	55	-10	63	8	60	33	50	34	61	47	55
27 HIGH	30	60	32	55	40	61	54	64	64	59	73	59
27 LOW	-19	63	-3	63	13	55	31	50	33	61	46	55
28 HIGH	28	60	31	55	46	51	59	51	62	59	75	59
28 LOW	-19	63	-4	62	16	55	29	50	37	64	50	54
29 HIGH	29	54	25	64	47	63	54	63	65	62	71	52
29 LOW	-12	51	-2	60	15	64	28	58	36	64	50	51
30 HIGH	26	60		42	63	54	62	65	53	71	53	50
30 LOW	-19	51		10	64	32	63	34	64	53	50	50
31 HIGH	31	64		50	63		63	58		72	55	71
31 LOW	-10	63		18	54		44	56		49	62	50

Table 111. Monthly Maximum and Minimum 5.5-foot  
Temperature (°F) and Range of Monthly Temperature (°F).  
January 1950–December 1964

YEAR	MONTH												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1950	MAXIMUM	65	39	62	73	87	86	89	87	81	84	77	48
	MINIMUM	0	-8	-2	28	36	46	50	45	38	33	-2	-15
	RANGE	65	47	64	45	51	40	39	42	43	51	79	63
1951	MAXIMUM	51	54	65	81	86	87	88	89	88	86	61	62
	MINIMUM	-19	-16	10	28	37	39	47	47	35	30	9	-16
	RANGE	70	70	55	53	49	48	41	42	53	56	52	78
1952	MAXIMUM	54	50	61	83	90	95	91	87	89	83	72	56
	MINIMUM	-4	13	6	25	35	45	50	47	39	16	8	11
	RANGE	58	37	55	58	55	50	41	40	50	67	64	45
1953	MAXIMUM	55	54	73	78	87	96	90	94	96	85	71	54
	MINIMUM	-5	-7	11	23	34	44	50	51	35	30	14	-4
	RANGE	60	61	62	55	53	52	40	43	61	55	57	58
1954	MAXIMUM	50	67	66	81	84	95	92	89	91	87	67	43
	MINIMUM	-11	3	1	16	28	46	51	50	41	27	17	11
	RANGE	61	64	65	65	56	49	41	39	50	60	50	32
1955	MAXIMUM	48	48	69	80	85	90	97	95	93	78	70	55
	MINIMUM	-14	-11	1	30	35	45	55	50	37	28	0	-2
	RANGE	62	59	68	50	50	45	42	45	56	50	70	57
1956	MAXIMUM	44	47	59	81	89	93	101	96	93	84	72	61
	MINIMUM	-3	1	14	20	30	36	50	47	32	30	10	6
	RANGE	47	46	45	61	59	57	51	49	61	54	62	55
1957	MAXIMUM	54	61	70	80	83	90	92	91	89	72	62	56
	MINIMUM	-13	6	9	14	32	39	52	49	33	27	9	-3
	RANGE	67	55	61	66	51	51	40	42	56	45	53	59
1958	MAXIMUM	44	54	57	82	85	85	86	90	84	80	70	47
	MINIMUM	-12	-12	20	28	32	40	53	45	34	27	-2	-18
	RANGE	56	66	37	54	53	45	33	45	50	53	72	65
1959	MAXIMUM	41	50	72	75	87	90	89	93	92	75	63	55
	MINIMUM	-18	-13	11	23	36	40	50	53	36	23	0	13
	RANGE	59	63	61	52	51	50	39	40	56	52	63	42
1960	MAXIMUM	56	40	69	83	80	85	90	91	95	80	69	59
	MINIMUM	0	-2	-9	19	32	44	47	52	37	21	15	-18
	RANGE	56	42	78	64	48	41	43	39	58	59	54	77
1961	MAXIMUM	48	57	70	68	83	89	86	88	85	77	73	59
	MINIMUM	-6	7	17	16	29	40	46	49	33	27	17	-5
	RANGE	54	50	53	52	54	49	40	39	52	50	56	64
1962	MAXIMUM	37	46	68	84	87	89	87	91	89	84	61	61
	MINIMUM	-15	-5	-7	23	36	43	48	48	36	16	19	-12
	RANGE	52	51	75	61	51	46	39	43	53	68	42	73
1963	MAXIMUM	41	48	79	80	87	93	94	91	87	89	69	58
	MINIMUM	-20	-13	-4	23	27	34	45	41	37	34	17	-14
	RANGE	61	61	83	57	60	59	49	50	50	55	52	72
1964	MAXIMUM	59	56	63	83	90	91	90	94	90	78	72	48
	MINIMUM	-4	-1	8	22	34	40	48	44	34	23	4	-2
	RANGE	63	57	55	61	56	51	42	50	56	55	68	50



Table 115. Monthly Maximum of the Daily 5.5-foot Temperature Range (°F) Each Year. January 1950-December 1964

YEAR	MONTH											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1950	35	33	26	37	33	38	27	26	26	31	32	27
1951	28	29	43	37	36	36	32	29	32	31	24	33
1952	28	26	27	40	37	29	30	28	36	38	36	23
1953	37	37	29	34	34	31	30	29	41	34	32	28
1954	35	29	30	34	32	34	31	26	35	27	31	22
1955	30	35	37	35	38	32	31	29	36	37	38	27
1956	30	30	32	39	41	34	34	30	38	35	35	31
1957	35	27	38	36	37	37	33	32	36	33	30	33
1958	29	34	30	34	40	36	30	32	31	35	32	32
1959	33	33	37	33	35	33	33	27	35	31	32	23
1960	24	26	28	33	34	31	30	30	34	36	35	30
1961	31	30	32	31	36	33	33	28	34	33	28	31
1962	37	34	33	39	32	29	27	36	31	33	31	33
1963	32	37	34	46	33	42	38	29	34	39	32	25
1964	38	38	39	38	41	33	33	29	35	34	37	27

Table 116. Monthly Minimum of the Daily 5.5-foot Temperature Range (°F) Each Year. January 1950-December 1964

YEAR	MONTH											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1950	2	3	2	4	11	4	7	5	6	5	4	3
1951	5	2	2	4	4	10	8	10	3	5	5	6
1952	5	5	4	4	7	12	13	11	11	11	6	3
1953	3	5	4	2	6	16	8	14	15	6	4	6
1954	5	5	3	6	14	9	11	5	12	8	5	2
1955	4	5	7	6	10	5	17	10	13	5	7	6
1956	3	4	6	6	8	14	6	11	15	15	4	2
1957	4	2	3	4	5	12	9	9	6	5	5	5
1958	1	4	5	4	13	9	9	11	9	5	9	6
1959	7	3	5	9	12	12	16	10	11	4	5	5
1960	2	3	4	6	3	6	9	6	7	5	2	9
1961	4	6	7	6	8	13	5	6	6	3	3	1
1962	7	3	4	11	10	10	6	13	14	8	5	4
1963	2	5	2	13	11	9	7	7	11	8	6	3
1964	5	6	2	4	16	17	10	9	3	12	4	4

Table 117. Monthly Mean of the Daily 5.5-foot Temperature Range (°F) Each Year. January 1950-December 1964

YEAR	MONTH											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1950	18	14	14	13	22	18	19	18	16	20	16	17
1951	14	16	16	18	22	21	21	19	20	20	15	17
1952	16	14	14	22	21	21	21	20	24	25	20	11
1953	14	17	17	19	23	22	20	22	25	23	18	15
1954	17	17	17	22	23	21	21	18	22	16	17	11
1955	15	16	20	23	24	20	23	22	24	23	26	17
1956	16	16	20	23	24	25	23	22	28	26	19	14
1957	18	14	20	20	21	20	22	22	23	22	18	18
1958	15	18	15	22	27	22	19	21	22	23	19	16
1959	18	16	19	22	21	23	23	20	22	17	17	13
1960	12	12	18	21	20	21	22	20	20	23	17	18
1961	16	16	17	19	23	25	21	20	20	19	16	14
1962	15	14	14	23	20	22	18	23	23	20	17	17
1963	14	20	18	26	23	25	21	22	23	24	18	15
1964	17	18	18	20	24	24	21	22	21	23	19	14

Table 118. Mean and Percentile Distribution of the Daily 5.5-foot Temperature Range. (°F) January 1950-December 1964

MONTH	MEAN RANGE	PERCENT				
		10	25	50	75	90
JAN	16	7	11	15	20	25
FEB	16	7	11	16	21	25
MAR	17	7	12	17	22	27
APR	21	10	15	20	27	32
MAY	23	13	18	22	28	32
JUN	22	14	18	22	26	30
JUL	21	14	18	21	25	27
AUG	21	14	18	21	24	27
SEP	22	14	18	22	26	30
OCT	21	11	16	22	28	31
NOV	18	8	13	18	23	27
DEC	15	7	10	15	20	24
ANNUAL	19	9	14	20	25	29

Figure 34. Maximum, Minimum and Mean Daily 5.5-foot Temperature Range (°F) for Each Month and Year. January 1950-December 1964

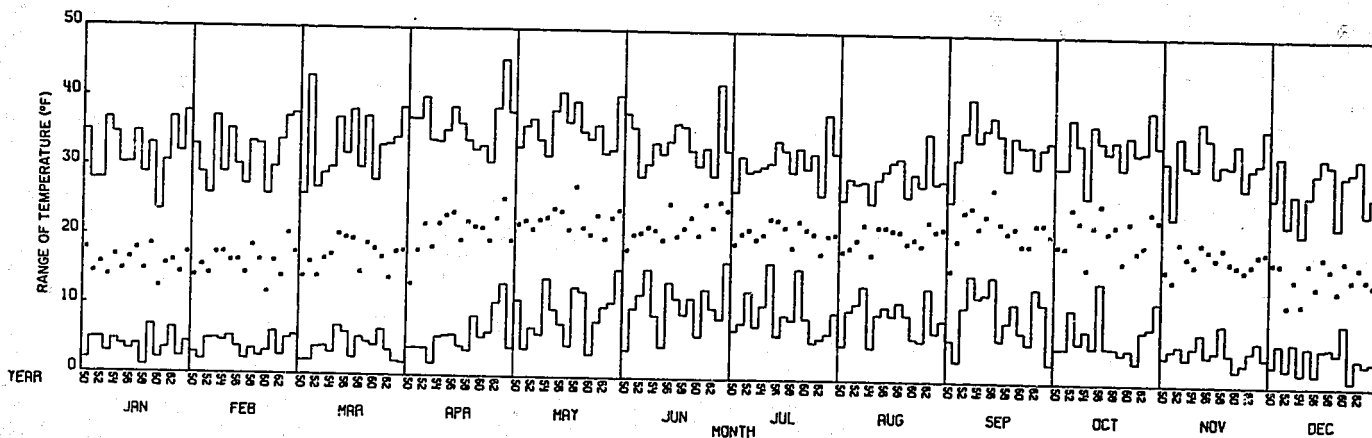


Table 119. Percentage Frequency Distribution of 2-hour, 11-hour and 23-hour Range of 5.5-foot Temperature (°F) Beginning with Indicated Hour. Total Period. January 1950-December 1964

HOUR	TEMPERATURE (°F)													MISSING	TOTAL
	0-2	3-5	6-8	9-11	12-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	≥50		
1	3.263	0.793	0.079	0.013	0.004	0.001	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.014	4.167
2	3.339	0.733	0.066	0.008	0.003	0.002	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.014	4.167
3	3.387	0.700	0.057	0.007	0.000	0.001	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.014	4.167
4	2.973	0.977	0.176	0.021	0.003	0.002	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.014	4.167
5	2.234	1.076	0.567	0.220	0.043	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.014	4.167
6	1.582	1.014	0.837	0.554	0.148	0.017	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.014	4.167
7	1.128	1.112	1.061	0.639	0.174	0.037	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.014	4.167
8	0.997	1.448	1.125	0.468	0.097	0.017	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.014	4.167
9	1.121	1.883	0.874	0.229	0.041	0.006	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.012	4.167
10	1.585	1.932	0.535	0.088	0.013	0.002	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.011	4.167
11	2.207	1.642	0.252	0.040	0.008	0.005	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.012	4.167
12	2.876	1.105	0.131	0.027	0.007	0.005	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.014	4.167
13	3.243	0.739	0.110	0.033	0.014	0.010	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.014	4.167
14	3.012	0.926	0.132	0.046	0.024	0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.016	4.167
15	2.172	1.424	0.446	0.075	0.020	0.012	0.002	0.001	0.000	0.000	0.000	0.000	0.000	0.016	4.167
16	1.425	1.691	0.780	0.197	0.039	0.019	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.015	4.167
17	1.399	1.331	1.070	0.289	0.046	0.014	0.002	0.001	0.001	0.000	0.000	0.000	0.000	0.015	4.167
18	1.748	1.299	0.851	0.217	0.029	0.005	0.001	0.000	0.002	0.001	0.000	0.000	0.000	0.015	4.167
19	2.206	1.484	0.394	0.050	0.011	0.004	0.000	0.000	0.002	0.001	0.000	0.000	0.000	0.014	4.167
20	2.710	1.242	0.167	0.020	0.010	0.002	0.000	0.000	0.001	0.001	0.001	0.000	0.000	0.014	4.167
21	2.996	1.025	0.106	0.011	0.007	0.006	0.001	0.000	0.001	0.000	0.000	0.000	0.000	0.014	4.167
22	3.164	0.877	0.084	0.019	0.004	0.003	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.014	4.167
23	3.162	0.872	0.100	0.010	0.005	0.002	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.014	4.167
24	3.227	0.814	0.090	0.014	0.005	0.002	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.014	4.166
TOTAL	57.156	28.140	10.091	3.294	0.753	0.198	0.014	0.006	0.006	0.002	0.001	0.000	0.000	0.338	100.00

2 HOUR TIME INTERVALS

NUMBER OF OBSERVATIONS = 131494

HOUR	TEMPERATURE (°F)													MISSING	TOTAL
	0-2	3-5	6-8	9-11	12-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	≥50		
1	0.113	0.397	0.495	0.533	0.559	0.925	0.755	0.305	0.065	0.003	0.000	0.000	0.000	0.017	4.167
2	0.103	0.368	0.435	0.494	0.525	0.913	0.817	0.383	0.099	0.014	0.000	0.000	0.000	0.017	4.167
3	0.094	0.343	0.426	0.458	0.522	0.909	0.823	0.424	0.127	0.022	0.001	0.000	0.000	0.019	4.167
4	0.101	0.323	0.425	0.447	0.498	0.917	0.833	0.440	0.138	0.023	0.002	0.000	0.000	0.021	4.167
5	0.089	0.335	0.426	0.462	0.501	0.932	0.827	0.430	0.122	0.020	0.002	0.000	0.000	0.021	4.167
6	0.084	0.332	0.453	0.495	0.572	1.091	0.734	0.304	0.071	0.008	0.002	0.000	0.000	0.021	4.167
7	0.073	0.313	0.526	0.689	0.798	1.076	0.494	0.155	0.020	0.003	0.002	0.000	0.000	0.020	4.167
8	0.069	0.336	0.639	1.063	0.906	0.830	0.243	0.056	0.005	0.000	0.000	0.000	0.000	0.021	4.167
9	0.081	0.370	0.650	1.078	1.063	0.726	0.134	0.041	0.005	0.002	0.000	0.000	0.000	0.019	4.167
10	0.092	0.424	0.620	0.950	0.972	0.852	0.172	0.056	0.011	0.002	0.000	0.000	0.000	0.017	4.167
11	0.103	0.440	0.610	0.795	0.227	1.046	0.243	0.066	0.018	0.001	0.001	0.001	0.000	0.017	4.167
12	0.124	0.451	0.533	0.689	0.764	1.117	0.367	0.073	0.025	0.005	0.001	0.001	0.000	0.017	4.167
13	0.147	0.416	0.491	0.647	0.700	1.158	0.456	0.098	0.024	0.010	0.002	0.001	0.000	0.017	4.167
14	0.155	0.398	0.472	0.602	0.656	1.174	0.528	0.119	0.028	0.014	0.002	0.000	0.000	0.017	4.166
15	0.158	0.404	0.475	0.602	0.643	1.144	0.557	0.125	0.028	0.012	0.002	0.000	0.000	0.017	4.166
16	0.167	0.479	0.525	0.607	0.606	1.091	0.529	0.102	0.031	0.009	0.003	0.000	0.000	0.017	4.166
17	0.209	0.580	0.597	0.666	0.663	0.979	0.347	0.078	0.021	0.009	0.002	0.000	0.000	0.016	4.166
18	0.243	0.722	0.764	0.774	0.707	0.702	0.175	0.044	0.014	0.004	0.000	0.000	0.000	0.017	4.166
19	0.291	0.904	1.014	0.965	0.533	0.332	0.073	0.026	0.011	0.001	0.000	0.000	0.000	0.017	4.166
20	0.313	1.041	1.229	0.895	0.388	0.202	0.062	0.012	0.008	0.001	0.000	0.000	0.000	0.016	4.166
21	0.272	0.912	1.041	0.903	0.589	0.349	0.070	0.010	0.005	0.000	0.000	0.000	0.000	0.015	4.166
22	0.208	0.735	0.805	0.822	0.635	0.723	0.195	0.024	0.002	0.000	0.000	0.000	0.000	0.017	4.166
23	0.149	0.568	0.674	0.697	0.623	0.907	0.449	0.079	0.004	0.000	0.000	0.000	0.000	0.016	4.166
24	0.123	0.446	0.591	0.592	0.598	0.925	0.657	0.195	0.024	0.000	0.000	0.000	0.000	0.016	4.166
TOTAL	3.560	12.036	14.916	16.925	15.847	21.019	10.538	3.645	0.906	0.161	0.021	0.002	0.000	0.424	100.00

11 HOUR TIME INTERVALS

NUMBER OF OBSERVATIONS = 131485

HOUR	TEMPERATURE (°F)													MISSING	TOTAL
	0-2	3-5	6-8	9-11	12-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	≥50		
1	0.013	0.122	0.227	0.375	0.465	1.091	1.039	0.561	0.198	0.042	0.009	0.002	0.000	0.024	4.167
2	0.013	0.119	0.221	0.359	0.445	1.090	1.051	0.584	0.204	0.044	0.011	0.002	0.000	0.024	4.167
3	0.011	0.121	0.209	0.337	0.451	1.073	1.073	0.593	0.214	0.046	0.011	0.002	0.000	0.024	4.167
4	0.010	0.114	0.210	0.316	0.448	1.047	1.120	0.596	0.220	0.048	0.011	0.002	0.000	0.024	4.167
5	0.010	0.106	0.211	0.314	0.420	1.050	1.138	0.608	0.219	0.054	0.013	0.002	0.000	0.024	4.167
6	0.009	0.103	0.208	0.309	0.440	1.138	1.172	0.514	0.182	0.049	0.014	0.002	0.000	0.024	4.167
7	0.008	0.109	0.212	0.321	0.490	1.254	1.112	0.433	0.141	0.045	0.014	0.003	0.000	0.024	4.167
8	0.008	0.119	0.225	0.382	0.558	1.295	1.002	0.368	0.128	0.042	0.014	0.003	0.000	0.023	4.167
9	0.011	0.133	0.253	0.442	0.588	1.238	0.950	0.345	0.129	0.039	0.014	0.005	0.000	0.021	4.167
10	0.014	0.141	0.278	0.459	0.577	1.183	0.966	0.342	0.129	0.039	0.014	0.005	0.000	0.021	4.167
11	0.010	0.136	0.278	0.430	0.548	1.155	1.034	0.370	0.127	0.042	0.011	0.005	0.000	0.021	4.167
12	0.010	0.129	0.249	0.379	0.524	1.099	1.103	0.459	0.138	0.039	0.011	0.005	0.000	0.021	4.167
13	0.011	0.116	0.242	0.338	0.459	1.072	1.138	0.542	0.168	0.043	0.011	0.005	0.000	0.022	4.167
14	0.011	0.108	0.234	0.323	0.427	1.041	1.144	0.600	0.191	0.051	0.010	0.004	0.000	0.023	4.167
15	0.016	0.110	0.235	0.313	0.426	1.031	1.123	0.606	0.213	0.059	0.008	0.003	0.000	0.024	4.167
16	0.015	0.124	0.254	0.325	0.431	1.025	1.099	0.585	0.220	0.050	0.011	0.002	0.000	0.025	4.167
17	0.015	0.141	0.257	0.362	0.481	1.031	1.037	0.554	0.207	0.044	0.009	0.002	0.000	0.025	4.167
18	0.016	0.143	0.285	0.387	0.516	1.037	0.985	0.531	0.195	0.037	0.008	0.001	0.000	0.025	4.167
19	0.015	0.141	0.290	0.420	0.539	1.020	0.963	0.524	0.189	0.033	0.008	0.001	0.000	0.024	4.167
20	0.017	0.137	0.284	0.433	0.539	1.023	0.959	0.524	0.186	0.032	0.007	0.002	0.000	0.024	4.167</

Table 120. Daily Average Heating Degree Day Based on 65°F. January 1950-December 1964

DAY	MONTH											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	40	44	38	23	11	5	0		2	7	19	36
2	37	45	37	21	9	6	0	0	1	7	22	32
3	40	44	35	24	9	5	0	0	1	8	24	29
4	44	39	36	26	10	3	1	0	2	9	24	30
5	41	37	37	21	11	2	1	1	3	10	25	34
6	41	40	35	19	9	3	0	0	3	11	28	36
7	42	41	37	23	12	2	0	0	3	12	27	37
8	41	41	37	26	11	1	1	0	3	12	27	38
9	41	39	34	24	13	2	1	0	1	11	27	42
10	43	40	31	24	13	1	0	0	2	11	26	43
11	43	43	31	22	11	2	0	1	4	11	23	43
12	40	41	30	22	9	3	0	1	5	9	24	46
13	40	38	31	19	9	3	0	1	5	10	20	46
14	39	38	31	18	7	3	0	1	4	10	19	45
15	42	39	35	18	8	2	0	1	5	9	18	46
16	47	40	34	16	9	2	0	0	5	8	22	45
17	44	40	34	16	9	3	0	1	4	10	26	43
18	44	37	33	16	7	2	0	1	4	13	27	43
19	41	40	31	17	8	1	0	1	4	15	29	43
20	44	40	32	15	7	3	0	1	5	16	30	42
21	44	41	31	11	6	2	0	1	5	14	31	43
22	47	41	31	13	8	1	1	1	6	12	29	41
23	50	37	28	15	8	1	0	1	7	14	33	40
24	45	36	29	13	5	1	0	1	6	19	35	42
25	45	36	30	14	5	1	0	1	6	17	32	40
26	46	36	31	14	6	0	0	1	6	17	33	40
27	49	37	25	12	7	0	0	0	8	18	34	42
28	48	38	26	15	6	0	0	0	9	19	37	41
29	48	39	27	13	5	0	0	0	8	20	40	41
30	50	40	27	12	3	0	0	0	8	17	40	45
31	46		25		1		0	1		18		41

Table 122. Daily Average Cooling Degree Day Based on Temperature-Humidity Index of 60°F. January 1950-December 1964

DAY	MONTH												ANNUAL	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
1	0	0	0	0	0	1	1	8	7	4	2	0	0	2
2	0	0	0	0	1	1	2	6	9	6	2	0	0	2
3	0	0	0	0	0	1	2	6	9	5	2	0	0	2
4	0	0	0	0	0	2	2	5	6	3	2	0	0	2
5	0	0	0	0	0	2	2	4	5	4	1	0	0	2
6	0	0	0	0	0	1	4	5	6	4	1	0	0	2
7	0	0	0	0	0	1	4	5	5	3	0	0	0	2
8	0	0	0	0	0	0	4	4	6	5	1	0	0	2
9	0	0	0	0	0	1	5	3	5	5	1	0	0	2
10	0	0	0	0	0	2	4	5	6	3	1	0	0	2
11	0	0	0	0	0	1	5	6	5	3	2	0	0	2
12	0	0	0	0	0	2	6	6	5	3	0	0	0	2
13	0	0	0	0	0	1	4	6	5	3	1	0	0	2
14	0	0	0	0	0	1	4	5	6	2	1	0	0	2
15	0	0	0	0	0	1	6	7	6	2	1	0	0	2
16	0	0	0	0	0	1	5	7	5	2	1	0	0	2
17	0	0	0	0	0	1	5	8	4	3	0	0	0	2
18	0	0	0	0	1	2	6	8	4	4	1	0	0	2
19	0	0	0	0	1	2	5	7	5	2	0	0	0	2
20	0	0	0	0	0	2	5	7	6	2	0	0	0	2
21	0	0	0	0	1	3	5	8	4	1	1	0	0	2
22	0	0	0	0	0	2	4	5	5	2	0	0	0	2
23	0	0	0	0	1	2	5	5	6	1	0	0	0	2
24	0	0	0	0	1	1	5	6	5	2	0	0	0	2
25	0	0	0	0	0	2	7	6	5	1	0	0	0	2
26	0	0	0	0	1	2	5	8	7	1	0	0	0	2
27	0	0	0	0	1	1	8	9	9	1	0	0	0	2
28	0	0	0	0	0	1	6	8	9	2	0	0	0	2
29	0	0	0	0	0	2	7	8	9	1	0	0	0	2
30	0	0	0	0	1	3	8	8	7	1	0	0	0	3
31	0	0			3		7	6		0		0		2

YEAR	MONTH												TOTAL
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1950	1149	1146	1025	453	226	54	6	35	124	291	968	1361	6836
1951	1350	1003	996	629	223	82	9	24	188	417	1046	1281	7247
1952	1267	1026	1022	489	300	28	4	19	142	611	767	1111	6785
1953	1195	1022	905	631	247	30	8	9	139	311	720	1137	6354
1954	1269	865	1050	441	365	52	2	16	80	433	789	1151	6512
1955	1350	1117	972	335	186	77		4	100	389	965	1309	6803
1956	1229	1122	970	605	272	49	9	17	130	233	824	1084	6542
1957	1526	971	934	536	274	46		8	160	502	827	1036	6818
1958	1315	1341	981	491	217	118	7	18	128	356	756	1436	7164
1959	1535	1174	964	557	163	37		5	109	514	1023	1010	7090
1960	1263	1237	1193	473	305	76	10	6	98	422	763	1324	7170
1961	1412	967	881	725	381	76	21	29	147	428	855	1337	7259
1962	1590	1179	1035	559	159	56	8	6	172	362	782	1327	7236
1963	1679	1339	823	471	313	59	8	36	118	159	658	1569	7230
1964	1142	1112	965	513	140	66	12	41	169	512	718	1228	6617
MEAN	1351	1108	981	527	251	60	7	18	134	396	831	1247	6911

Table 121. Monthly Number of Heating Degree Days Each Year Based on 65°F. January 1950-December 1964

YEAR	MONTH												TOTAL	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
1950						0	13	9	1					24
1951						0	0	1	3					5
1952						36	31							68
1953						3	30	15	32	22				101
1954						35	16	6	5	1				62
1955						4	89	56	3					152
1956						5	31	13	13	1				63
1957						12	23	8	3					45
1958						0	2	10	1					13
1959						1	21	9	43	19				92
1960							8	4	10	28				43
1961							7	0	1	1				9
1962						4	7	2	6	2				21
1963						0	14	23	1					37
1964						4	26	30	16	7				83
MEAN						1	16	18	14	6	0			54

Table 123. Monthly Number of Cooling Degree Days Each Year Based on an Air Temperature of 75°F. January 1950-December 1964

Figure 35. Maximum, Minimum and Mean of the Monthly Number of Heating Degree Days Based on 65°F. January 1950–December 1964

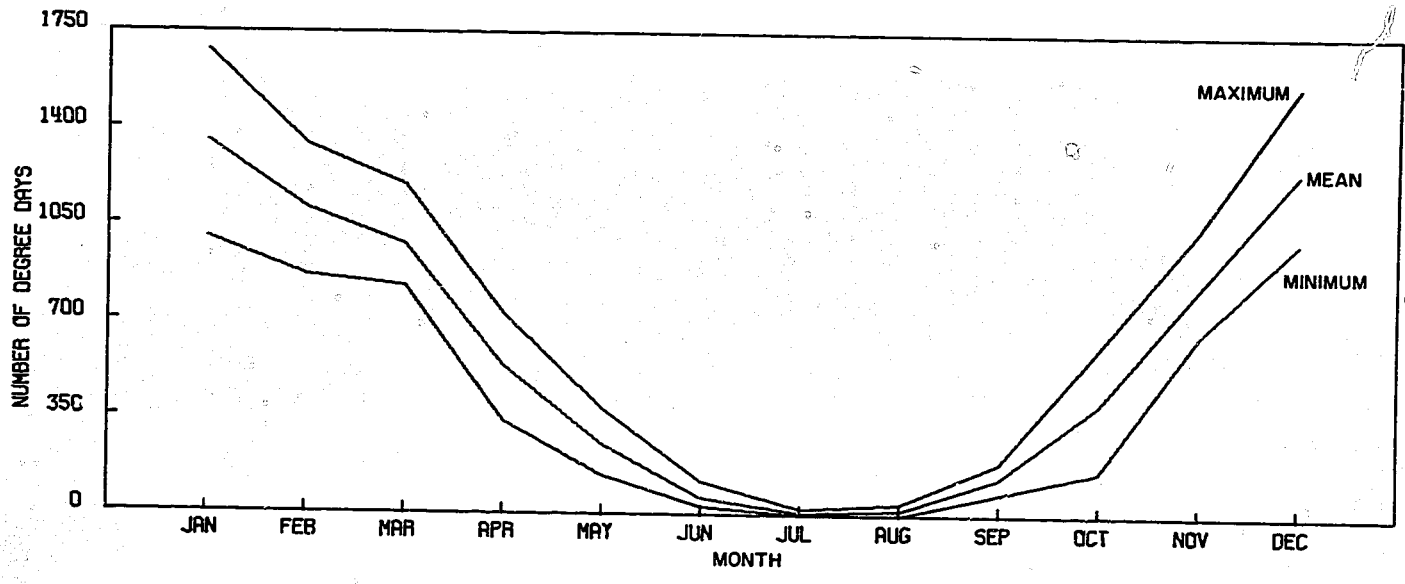


Figure 36. Maximum, Minimum and Mean of the Monthly Number of Cooling Degree Days Based on 75°F. January 1950–December 1964

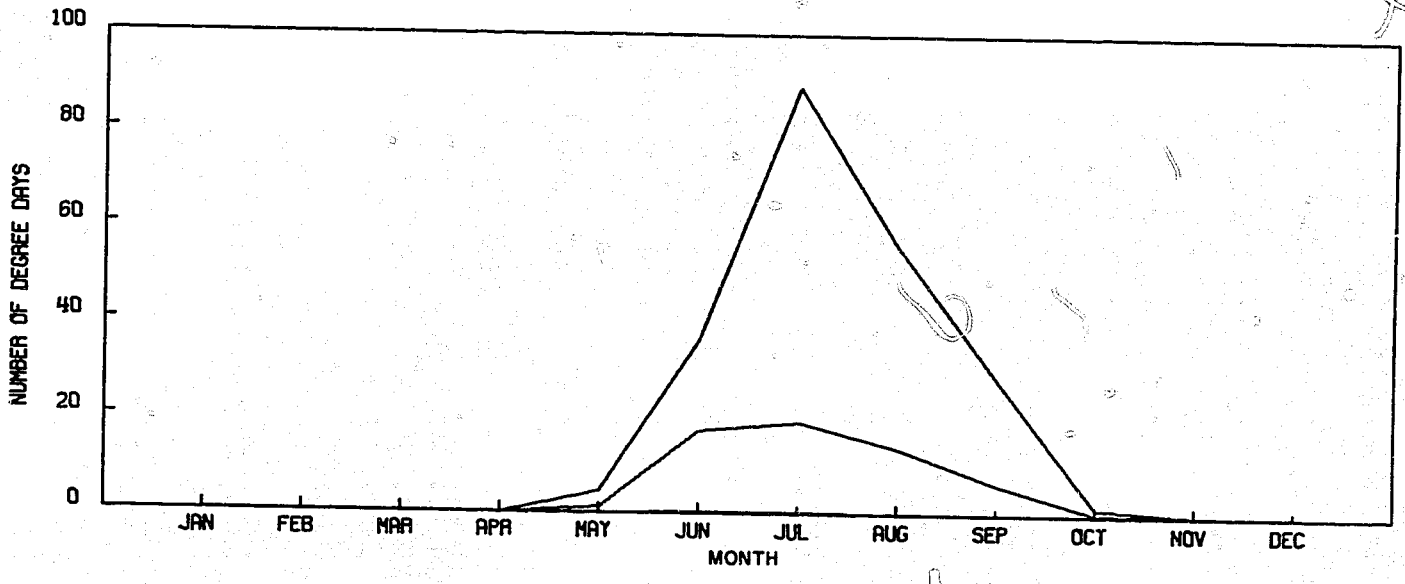




Table 124. Latest Date before July 1 and Earliest date after July 1 on Which the Indicated 5.5-foot Temperatures (°F) Occurred. January 1950–December 1964

Latest date before July 1									Earliest date after July 1								
YEAR	TEMPERATURE (°F)								YEAR	TEMPERATURE (°F)							
	16	20	24	28	32	36	40	43		16	20	24	28	32	36	40	43
1950	MAR 14	MAR 29	MAR 30	APR 8	APR 28	MAY 7	MAY 8	MAY 16	1950	NOV 11	NOV 10	NOV 10	NOV 4	NOV 4	OCT 5	SEP 24	SEP 23
1951	MAR 22	MAR 25	MAR 26	APR 23	APR 23	APR 27	JUN 5	JUN 5	1951	NOV 2	NOV 2	NOV 2	NOV 1	OCT 28	SEP 28	SEP 27	SEP 16
1952	MAR 7	MAR 27	APR 7	APR 11	APR 16	MAY 11	MAY 29	MAY 29	1952	NOV 27	OCT 29	OCT 6	OCT 6	OCT 3	OCT 2	SEP 23	SEP 20
1953	MAR 9	MAR 9	APR 19	APR 20	APR 21	MAY 13	MAY 14	MAY 23	1953	NOV 28	NOV 27	NOV 5	NOV 5	OCT 29	SEP 13	SEP 13	SEP 12
1954	MAR 30	APR 3	APR 4	APR 9	MAY 7	MAY 20	MAY 21	MAY 21	1954	DEC 7	NOV 30	NOV 1	OCT 30	OCT 28	OCT 17	OCT 7	SEP 22
1955	MAR 27	MAR 28	MAR 29	MAR 29	APR 8	MAY 18	MAY 18	MAY 18	1955	NOV 16	NOV 3	NOV 3	OCT 25	OCT 24	OCT 13	SEP 12	SEP 12
1956	MAR 13	MAR 24	APR 23	APR 24	APR 24	MAY 24	JUN 3	JUN 3	1956	NOV 23	NOV 16	NOV 8	NOV 8	SEP 20	SEP 20	SEP 18	SEP 7
1957	APR 12	APR 13	APR 14	APR 15	APR 15	MAY 5	MAY 16	JUN 3	1957	NOV 10	NOV 9	NOV 9	OCT 27	OCT 20	SEP 28	SEP 23	SEP 23
1958	FEB 20	FEB 20	MAR 23	APR 29	APR 29	MAY 7	MAY 24	JUN 6	1958	NOV 26	NOV 26	NOV 7	OCT 1	OCT 1	SEP 30	SEP 30	SEP 12
1959	MAR 22	MAR 22	APR 11	APR 21	APR 22	MAY 22	MAY 24	MAY 24	1959	NOV 14	NOV 7	OCT 28	OCT 28	OCT 12	OCT 11	SEP 18	SEP 16
1960	MAR 24	MAR 26	APR 10	APR 10	MAY 12	MAY 14	MAY 14	MAY 18	1960	NOV 30	NOV 30	OCT 21	OCT 20	OCT 19	SEP 30	SEP 30	SEP 30
1961	FEB 20	APR 2	APR 8	APR 16	MAY 27	MAY 27	MAY 16	JUN 21	1961	DEC 7	NOV 18	NOV 6	OCT 27	OCT 2	SEP 28	SEP 15	SEP 14
1962	MAR 15	MAR 16	APR 16	APR 16	APR 20	APR 20	MAY 10	MAY 11	1962	DEC 9	OCT 25	OCT 25	OCT 24	OCT 23	SEP 20	SEP 20	SEP 6
1963	MAR 2	MAR 22	MAR 12	MAY 1	JUN 22	JUN 22	JUN 22	JUN 22	1963	DEC 1	NOV 24	NOV 23	NOV 3	NOV 2	OCT 29	SEP 30	SEP 18
1964	MAR 30	MAR 30	APR 9	APR 9	APR 15	MAY 14	MAY 30	JUN 3	1964	NOV 20	NOV 19	OCT 10	OCT 9	OCT 6	SEP 28	SEP 25	SEP 12

Table 125. Monthly Average of the Number of Hours with 5.5-foot Temperatures (°F) above and below Specified Values. January 1950–December 1964

TEMPERATURE (°F)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
EQUAL TO OR ABOVE													
95	0.0	0.0	0.0	0.0	0.0	0.1	1.0	0.1	0.3	0.0	0.0	0.0	1.6
90	0.0	0.0	0.0	0.0	0.0	5.4	6.4	7.1	4.5	0.0	0.0	0.0	23.4
85	0.0	0.0	0.0	0.0	4.4	34.1	38.5	18.7	9.7	0.0	0.0	0.0	129.8
80	0.0	0.0	0.0	3.3	24.9	92.1	122.7	94.3	42.7	8.5	0.0	0.0	388.5
75	0.0	0.0	0.2	13.7	66.3	179.7	245.1	206.0	88.5	26.8	0.3	0.0	826.7
72	0.0	0.0	1.0	24.8	104.2	249.1	336.1	294.4	138.5	44.1	0.7	0.0	1193.0
70	0.0	0.0	1.8	34.2	130.4	297.1	397.4	355.5	176.1	59.1	1.9	0.0	1453.5
68	0.0	0.0	3.1	46.1	165.6	353.6	466.7	423.8	221.6	78.2	5.0	0.0	1763.6
65	0.0	0.1	5.3	67.0	219.3	425.7	561.3	519.1	289.3	119.3	10.5	0.0	2217.0
60	0.8	0.7	12.1	116.1	322.5	546.9	678.6	647.6	434.3	202.5	29.7	0.3	2991.9
55	2.3	3.7	26.7	183.5	433.1	629.7	729.8	716.5	547.3	306.1	66.9	5.4	3650.3
50	7.9	8.5	56.2	269.0	548.3	686.4	742.3	739.9	638.0	421.9	118.9	16.5	4253.9
43	21.2	29.5	122.0	412.1	668.2	715.6	744.0	743.9	699.8	581.1	230.8	46.9	5015.2
BELOW													
43	718.3	645.4	617.6	292.5	75.8	3.5	0.0	0.1	20.2	162.3	689.2	695.1	3720.1
32	589.1	476.8	350.9	58.5	1.7	0.0	0.0	0.0	0.1	24.1	245.0	538.9	2285.1
0	51.2	24.7	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	36.3	115.4
MISSING	4.5	3.5	4.4	15.4	0.0	0.0	0.0	0.0	0.0	0.5	0.0	1.9	31.1

Table 126. Monthly Average of the Number of Days with Daily Average 5.5-foot Temperatures (°F) above and below Specified Values. January 1950–December 1964

TEMPERATURE (°F)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
EQUAL TO OR ABOVE													
75	0.0	0.0	0.0	0.0	0.8	5.2	6.3	5.1	2.1	0.1	0.0	0.0	19.6
70	0.0	0.0	0.0	0.2	3.1	10.6	16.8	14.2	5.2	0.5	0.0	0.0	50.5
65	0.0	0.0	0.0	1.4	7.5	17.7	26.8	24.7	11.1	3.1	0.0	0.0	92.3
60	0.0	0.0	0.1	3.7	12.2	22.2	30.1	29.7	17.7	7.0	0.6	0.0	123.3
55	0.0	0.1	0.5	6.6	19.2	26.1	30.4	31.1	25.1	12.6	1.7	0.0	153.5
50	0.1	0.5	1.8	10.7	24.6	27.5	30.4	31.1	28.9	18.3	4.0	0.3	176.1
43	0.7	0.8	4.0	17.5	29.9	27.7	30.4	31.1	30.0	25.6	8.8	1.5	207.9
BELOW													
43	30.3	27.3	26.7	11.5	1.3	0.0	0.0	0.0	0.1	5.0	21.2	29.5	152.7
32	26.1	21.3	13.6	0.9	0.0	0.0	0.0	0.0	0.0	0.3	9.1	23.5	96.7
20	11.7	6.9	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	9.7	32.7
10	6.2	2.6	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	3.9	13.5
0	1.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.2	3.8

Table 127. Percentile Distribution, Extremes and Mean of the Daily Average 5.5-foot Temperature ( $^{\circ}\text{F}$ ).  
January 1950–December 1964

YEAR	PERCENT					MIN	MAX	MEAN
	10	25	50	75	90			
1950	18	28	47	64	70	-1	78	45
1951	19	31	48	64	70	-8	77	46
1952	24	32	48	65	73	2	83	48
1953	26	34	50	66	74	1	85	50
1954	25	33	49	67	73	0	83	49
1955	20	30	52	66	75	-5	85	49
1956	24	31	51	67	73	5	83	49
1957	24	32	48	65	72	-4	81	48
1958	15	31	48	63	70	-9	81	46
1959	22	30	48	68	74	-6	81	48
1960	18	27	48	64	72	-4	81	46
1961	22	32	47	64	71	-2	78	46
1962	16	31	50	66	72	-9	78	47
1963	7	31	53	66	72	-16	81	47
1964	21	32	50	65	73	5	83	49

Figure 37. Annual Maximum and Minimum of the Daily Average 5.5-foot Temperature ( $^{\circ}\text{F}$ ). January 1950–December 1964

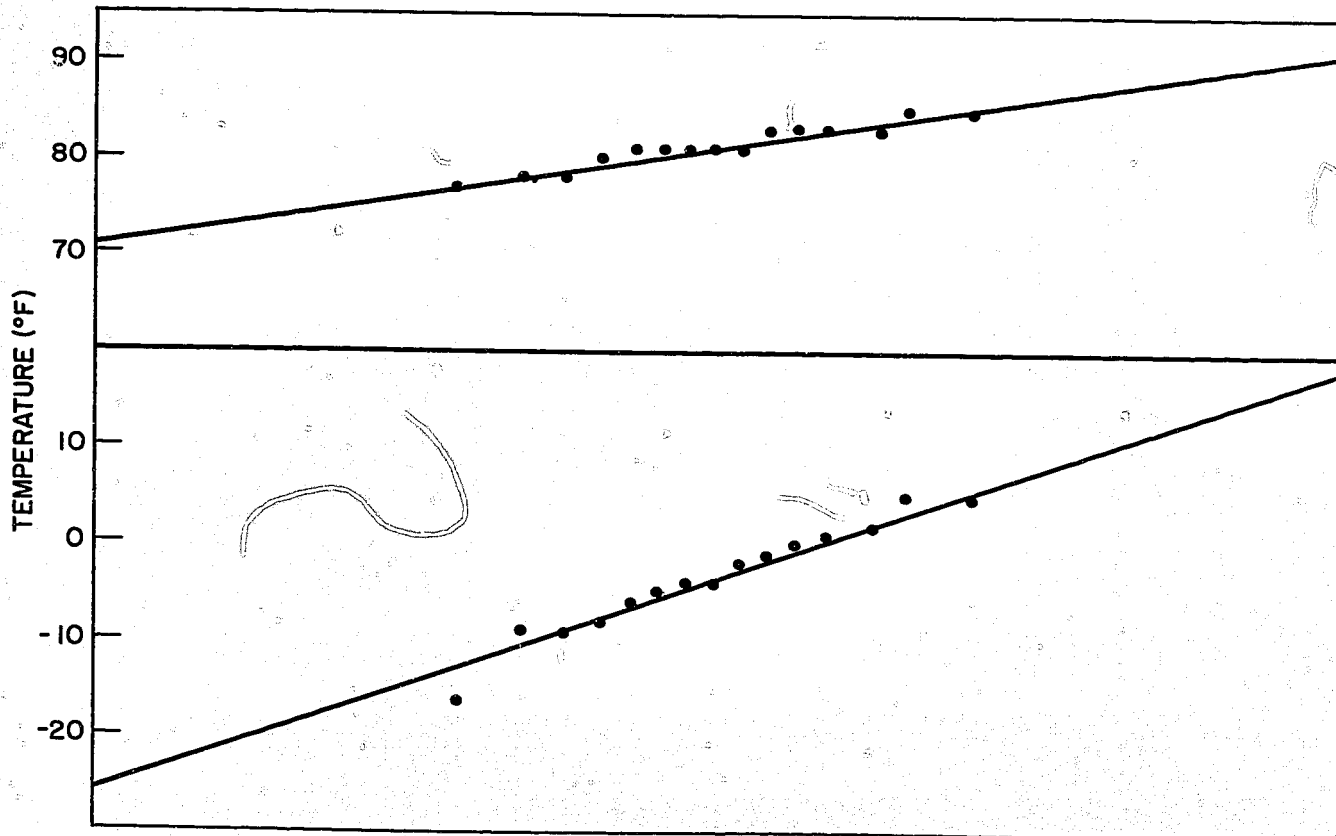


Table 128. Frequency Distribution of the Number of Consecutive Hourly 5.5-foot Temperatures ( $^{\circ}\text{F}$ ) below Indicated Values. January 1950–December 1964

NUMBER OF HOURS	-----TEMPERATURE ( $^{\circ}\text{F}$ )-----						
	35	32	30	25	20	10	0
1	152	140	142	124	99	40	26
2	70	79	84	71	48	27	13
3	55	59	68	54	37	12	13
4	57	36	50	44	29	10	9
5	49	42	54	44	32	14	7
6	46	41	43	39	35	18	10
7	42	52	42	33	18	14	6
8	35	30	42	25	31	12	5
9	43	47	47	23	20	21	10
10	39	42	30	31	28	11	12
11	47	41	38	27	23	13	7
12	46	53	39	24	32	3	9
13	48	43	32	24	27	10	4
14	47	38	49	33	14	11	6
15	53	43	35	40	18	9	9
16	38	42	32	38	21	13	6
17	42	37	34	31	24	12	4
18	35	32	35	31	21	7	6
19	31	38	36	15	10	8	4
20	23	19	21	14	9	7	3
21-25	41	43	29	22	13	6	5
26-30	9	9	18	8	8	9	1
31-35	12	12	11	14	9	8	1
36-40	20	22	22	15	7	5	3
41-45	39	42	28	23	14	7	2
46-50	16	13	8	7	8	0	0
51-55	6	5	10	7	4	1	1
56-60	6	6	9	13	11	5	0
61-65	8	11	12	9	7	5	1
66-70	13	21	15	7	6	1	0
>70	139	120	103	57	35	13	0
MAXIMUM	834	600	584	343	330	169	64





Table 131. Frequency Distribution of the Number of Consecutive Hourly 5.5-foot Temperatures (°F) above Indicated Values. January-December 1958-1961

NUMBER OF HOURS	TEMPERATURE (°F)										MISSING	TEMPERATURE (°F)										MISSING									
	90	85	80	75	72	70	68	65	60	MISSING		90	85	80	75	72	70	68	65	60	MISSING										
1958																															
1	0	3	10	14	14	11	11	12	10	0	569	2	10	6	6	10	14	6	8	6	1										
2	0	0	7	10	4	9	10	9	9	0		1	4	7	7	5	7	7	7	6	0										
3	0	0	6	5	6	8	5	6	4	0		2	4	3	3	7	6	6	5	4	0										
4	0	1	4	6	8	4	7	4	3	0		1	7	6	2	2	9	6	6	4	0										
5	0	1	4	9	10	9	13	7	6	0		0	7	9	3	6	2	5	2	6	0										
6	0	2	5	5	7	7	7	9	4	0		1	4	4	9	5	0	3	4	5	0										
7	0	1	4	9	9	13	11	6	7	0		0	6	8	10	6	8	7	9	5	0										
8	0	0	5	6	8	8	12	9	7	0		0	4	7	5	7	5	3	4	4	0										
9	0	0	2	13	15	12	6	9	6	0		0	0	11	12	11	8	7	2	2	0										
10	0	0	2	9	6	7	9	11	2	0		0	0	11	15	12	6	6	8	6	0										
11	0	0	0	4	7	10	13	10	10	0		0	0	4	5	10	9	3	6	3	0										
12	0	0	1	3	11	4	6	9	8	0		0	0	2	12	7	11	10	6	3	0										
13	0	0	0	1	5	10	9	7	7	0		0	0	1	2	8	10	9	3	3	0										
14	0	0	0	0	2	3	2	5	8	0		0	0	0	5	7	6	8	6	6	0										
15	0	0	0	2	3	5	5	4	6	0		0	0	0	5	4	3	6	2	6	0										
16	0	0	0	1	2	1	1	9	4	0		0	0	0	1	3	5	2	5	2	0										
17	0	0	0	0	5	4	4	1	3	0		0	0	0	2	6	5	5	4	0	0										
18	0	0	0	0	2	2	2	0	7	0		0	0	0	2	2	2	5	7	3	0										
19	0	0	0	0	0	0	0	2	4	0		0	0	0	1	4	2	5	2	2	0										
20	0	0	0	1	0	2	4	5	0	0		0	0	0	2	2	1	3	2	3	0										
21-25	0	0	0	1	1	2	3	1	0	0		0	0	0	6	5	2	6	4	0	0										
26-30	0	0	0	0	0	0	2	2	0	0		0	0	0	0	0	0	0	1	0	0										
31-35	0	0	0	0	0	4	2	2	3	0		0	0	0	0	0	0	0	1	2	0										
36-40	0	0	0	1	1	2	7	4	3	0		0	0	0	1	2	3	2	1	0	0										
41-45	0	0	0	0	0	1	2	3	0	0		0	0	0	1	0	2	3	4	0	0										
46-50	0	0	0	0	0	0	2	0	0	0		0	0	0	0	0	0	0	0	1	0										
51-55	0	0	0	0	0	0	0	1	0	0		0	0	0	0	0	0	0	0	0	0										
56-60	0	0	0	0	0	0	0	2	0	0		0	0	0	0	0	1	0	0	0	0										
61-65	0	0	0	0	0	0	3	1	0	0		0	0	0	0	0	0	1	3	0	0										
66-70	0	0	0	0	0	1	3	4	0	0		0	0	0	0	0	0	0	0	1	0										
>70	0	0	0	0	0	0	1	7	0	0		0	0	0	0	3	6	7	13	0	0										
MAXIMUM	0	7	12	37	38	39	70	88	210	0	6	8	13	44	74	115	116	235	356	1											

NUMBER OF HOURS	TEMPERATURE (°F)										MISSING	TEMPERATURE (°F)										MISSING									
	90	85	80	75	72	70	68	65	60	MISSING		90	85	80	75	72	70	68	65	60	MISSING										
1960																															
1	1	1	8	15	17	11	15	14	12	0	1961	0	3	7	4	9	9	14	10	12	0										
2	1	0	6	6	4	7	5	8	4	0		0	2	6	2	4	5	9	3	5	0										
3	4	2	5	5	2	6	6	7	4	0		0	1	6	7	8	7	6	5	4	0										
4	1	2	5	4	8	6	8	3	8	0		0	3	3	6	8	3	7	3	4	0										
5	1	3	5	6	5	3	6	7	4	0		0	1	4	8	7	10	8	6	3	0										
6	0	0	5	9	14	8	6	5	4	0		0	1	9	12	4	8	7	0	7	0										
7	0	0	6	8	8	12	11	7	2	1		0	2	6	6	12	11	9	5	4	0										
8	0	3	1	8	7	7	9	10	8	0		0	0	4	10	8	6	6	10	4	0										
9	0	1	6	10	13	11	10	9	7	0		0	0	1	12	12	7	8	5	5	0										
10	0	0	5	7	7	11	9	5	9	0		0	0	3	8	11	13	8	8	5	0										
11	0	0	3	10	8	12	7	10	7	0		0	0	1	9	11	15	14	10	6	0										
12	0	0	0	2	10	8	10	13	5	0		0	0	0	2	6	12	10	4	6	0										
13	0	0	0	3	7	5	13	11	7	0		0	0	0	2	4	2	11	9	6	0										
14	0	0	0	3	2	7	4	3	5	0		0	0	0	2	3	5	3	6	2	0										
15	0	0	0	1	0	4	5	9	5	0		0	0	0	0	5	2	4	5	5	0										
16	0	0	0	1	5	4	3	7	3	0		0	0	0	0	2	3	4	5	2	0										
17	0	0	0	1	4	4	4	5	3	0		0	0	0	0	3	2	5	8	8	0										
18	0	0	0	0	2	2	3	5	3	0		0	0	0	0	1	1	3	3	2	0										
19	0	0	0	0	2	0	1	3	3	0		0	0	0	0	0	3	1	3	5	0										
20	0	0	0	0	1	2	1	3	1	0		0	0	0	0	0	1	2	3	2	0										
21-25	0	0	0	1	3	2	0	3	0	0		0	0	0	0	0	4	5	5	5	0										
26-30	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0										
31-35	0	0	0	0	1	0	0	0	2	0		0	0	0	0	0	1	0	2	1	0										
36-40	0	0	0	0	0	2	2	2	5	0		0	0	0	0	0	0	2	0	2	0										
41-45	0	0	0	0	0	2	2	1	1	1		0	0	0	0	0	0	1	0	4	0										
46-50	0	0	0	0	0	0	0	0	1	0		0	0	0	0	0	0	0	1	2	0										
51-55	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0										
56-60	0	0	0	0	0	0	0	0	1	0		0	0	0	0	0	0	0	0	0	0										
61-65	0	0	0	0	0	0	0	2	0	0		0	0	0	0	0	0	0	0	3	0										
66-70	0	0	0	0	0	1	3	4	0	0		0	0	0	0	0	0	0	1												

Table 132. Frequency Distribution of the Number of Consecutive Hourly 5.5-foot Temperatures (°F) above Indicated Values. January-December 1962-1964. January 1950-December 1964

NUMBER OF HOURS	TEMPERATURE (°F)										MISSING	TEMPERATURE (°F)										MISSING								
	90	85	80	75	72	70	68	65	60	MISSING		90	85	80	75	72	70	68	65	60	MISSING									
1962																														
1	0	3	8	10	5	9	8	15	13	0	1	5	13	3	10	16	18	10	13	0	1	5	13	3	10	16	18	10	13	0
2	1	2	3	5	3	5	8	8	7	0	1	4	6	5	7	11	8	9	6	0	1	4	6	5	7	11	8	9	6	0
3	0	1	7	2	3	3	2	3	4	0	0	2	5	5	4	4	4	5	5	0	0	2	5	5	4	4	4	5	5	0
4	0	2	7	9	4	4	3	6	5	0	1	4	8	7	6	12	8	8	5	0	1	4	8	7	6	12	8	8	5	0
5	0	6	7	9	11	2	3	6	4	0	0	2	6	13	8	3	9	12	0	0	0	2	6	13	8	3	9	12	0	0
6	0	5	5	9	10	2	3	4	2	0	1	3	6	10	9	5	9	8	8	0	1	3	6	10	9	5	9	8	8	0
7	0	1	8	10	7	13	5	6	4	0	0	4	6	9	12	14	7	11	5	0	0	4	6	9	12	14	7	11	5	0
8	0	0	8	10	10	8	8	5	6	0	0	1	8	4	11	12	12	6	6	0	0	1	8	4	11	12	12	6	6	0
9	0	0	5	11	12	14	12	8	6	0	0	2	8	13	12	12	12	9	10	0	0	2	8	13	12	12	12	9	10	0
10	0	0	6	11	11	11	13	6	6	0	0	0	4	15	6	12	16	15	6	0	0	0	4	15	6	12	16	15	6	0
11	0	0	0	8	17	12	6	8	1	0	0	0	4	3	7	6	6	13	10	0	0	0	4	3	7	6	6	13	10	0
12	0	0	0	8	14	10	14	4	4	0	0	0	2	5	11	9	7	6	6	0	0	0	2	5	11	9	7	6	6	0
13	0	0	0	4	6	9	7	5	4	0	0	0	0	11	10	10	9	5	13	0	0	0	0	11	10	10	9	5	13	0
14	0	0	0	3	5	8	10	5	4	0	0	0	0	2	6	6	6	8	5	0	0	0	0	2	6	6	6	8	5	0
15	0	0	0	0	3	5	5	8	2	0	0	0	0	1	3	9	7	3	6	0	0	0	0	1	3	9	7	3	6	0
16	0	0	0	0	5	2	3	3	6	0	0	0	0	1	3	2	8	3	6	0	0	0	0	1	3	2	8	3	6	0
17	0	0	0	1	2	3	7	4	5	0	0	0	0	1	2	5	5	10	4	0	0	0	0	1	2	5	5	10	4	0
18	0	0	0	0	1	4	4	4	3	0	0	0	0	0	2	2	3	4	1	0	0	0	0	0	2	2	3	4	1	0
19	0	0	0	0	0	4	6	2	0	0	0	0	0	1	2	1	2	3	2	0	0	0	0	1	2	1	2	3	2	0
20	0	0	0	0	0	0	2	4	1	0	0	0	0	0	3	2	3	5	3	0	0	0	0	0	3	2	3	5	3	0
21-25	0	0	0	0	1	0	8	12	6	0	0	0	0	0	1	3	1	7	9	0	0	0	0	0	1	3	1	7	9	0
26-30	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31-35	0	0	0	0	0	1	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36-40	0	0	0	0	2	3	2	3	1	0	0	0	0	0	0	0	0	3	2	0	0	0	0	0	0	0	0	3	2	0
41-45	0	0	0	0	0	0	4	5	2	0	0	0	0	0	0	1	2	3	1	0	0	0	0	0	0	1	2	3	1	0
46-50	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2	0	0
51-55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0
56-60	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61-65	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66-70	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1	0
>70	0	0	0	0	0	0	0	2	11	0	0	0	0	0	0	0	2	2	6	0	0	0	0	0	0	0	2	2	6	0
MAXIMUM	2	7	10	17	37	45	93	290	0	6	9	12	18	22	45	92	139	617	0	6	9	12	18	22	45	92	139	617	0	
1963																														
1	1	4	6	5	7	11	8	9	7	0	1	5	13	3	10	16	18	10	13	0	1	5	13	3	10	16	18	10	13	0
2	1	4	6	5	7	11	8	9	7	0	1	4	6	5	7	11	8	9	6	0	1	4	6	5	7	11	8	9	6	0
3	0	2	5	5	4	4	4	5	4	0	0	2	5	5	4	4	4	5	5	0	0	2	5	5	4	4	4	5	5	0
4	1	4	8	7	6	12	8	8	5	0	1	4	8	7	6	12	8	8	5	0	1	4	8	7	6	12	8	8	5	0
5	0	2	6	13	8	3	9	12	0	0	0	2	6	13	8	3	9	12	0	0	0	2	6	13	8	3	9	12	0	0
6	1	3	6	10	9	5	6	4	4	0	1	3	6	10	9	5	6	4	4	0	1	3	6	10	9	5	6	4	4	0
7	0	1	8	7	13	5	6	4	4	0	0	1	8	7	13	5	6	4	4	0	0	1	8	7	13	5	6	4	4	0
8	0	0	8	10	10	8	8	5	6	0	0	0	8	10	10	8	8	5	6	0	0	0	8	10	10	8	8	5	6	0
9	0	0	5	11	12	14	12	8	6	0	0	0	5	11	12	14	12	8	6	0	0	0	5	11	12	14	12	8	6	0
10	0	0	6	11	11	11	13	6	6	0	0	0	6	11	11	11	13	6	6	0	0	0	6	11	11	11	13	6	6	0
11	0	0	0	8	17	12	6	8	1	0	0	0	4	3	7	6	6	13	10	0	0	0	4	3	7	6	6	13	10	0
12	0	0	0	8	14	10	14	4	4	0	0	0	2	5	11	9	7	6	6	0	0	0	2	5	11	9	7	6	6	0
13	0	0	0	4	6	9	7	5	4	0	0	0	0	11	10	10	9	5	13	0	0	0	0	11	10	10	9	5	13	0
14	0	0	0	3	5	8	10	5	4	0	0	0	0	2	6	6	6	8	5	0	0	0	0	2	6	6	6	8	5	0
15	0	0	0	0	3	5	5	8	2	0	0	0	0	1	3	9	7	3	6	0	0	0	0	1	3	9	7	3	6	0
16	0	0	0	0	5	2	3	3	6	0	0	0	0	1	3	2	8	3	6	0	0	0	0	1	3	2	8	3	6	0
17	0	0	0	1	2	3	7	4	5	0	0	0	0	1	2	5	5	10	4	0	0	0	0	1	2	5	5	10	4	0
18	0	0	0	0	1	4	4	4	3	0	0	0	0	0	2	2	3	4	1	0	0	0	0	0	2	2	3	4	1	0
19	0	0	0	0	0	4	6	2	0	0	0	0	0	1	2	1	2	3	2	0	0	0	0	1	2	1	2	3	2	0
20	0	0	0	0	0	0	2	4	1	0	0	0	0	0	3	2	3	5	3	0	0	0	0	0	3	2	3	5	3	0
21-25	0	0	0	0	1	0	8	12	6	0	0	0	0	0	1	3	1	7	9	0	0	0	0	0	1	3	1	7	9	0
26-30	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31-35	0	0	0	0	0	1	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36-40	0	0	0	0	2	3	2	3	1	0	0	0	0	0	0	0	0	3	2	0	0	0	0	0	0	0	0	3	2	0
41-45	0	0	0	0	0	0	4	5	2	0	0	0	0	0	0	1	2	3	1	0	0	0	0	0	0	1	2	3	1	0
46-50	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2	0	

### Section 1.3

#### Atmospheric Moisture

Atmospheric moisture content has been measured by means of two different types of instruments: a hair hygrometer to measure relative humidity and Foxboro Dewcels to measure dewpoint.

The hourly relative humidity data used in this report for the period from January 1, 1950, to December 31, 1961, were taken from the hygrothermograph trace. From the latter date until the end of the 15-year period, all relative humidity values were computed from 5.5-foot air temperature and the dewpoint measured by the Dewcel sensor closest to 5 feet. Five Foxboro Dewcels were added to the system on March 12, 1958, to measure vertical moisture profiles. These were originally placed at the 5.5-, 18.75-, 37.5-, 75- and 131-foot levels on the Meteorology Tower and were moved to 1.2, 2.3, 4.7, 9.4 and 131 feet on December 1, 1960. Only data from the 5.5- and 4.7-foot levels were used in this report. Although the Dewcel has replaced the hygrothermograph as the basic moisture sensor, the latter was continued in operation to furnish data when the Dewcel was inoperative.

The hygrothermograph, housed in a standard U.S. Weather Bureau cotton-region type shelter and located about 5 feet above a grass covered surface, was serviced weekly, and the temperature and relative humidity readings were checked against mercurial wet- and dry-bulb thermometers. Deviations in the hygrothermograph pen and ink traces from the thermometer readings were treated as corrections and distributed proportionately over the chart. Readings of relative humidity were made to nearest whole percent; however, the accuracy of an individual reading is no better than  $\pm 5$  percent. Part of this error is due to instrument lag.

The daily maximum and minimum relative humidity were read from the hygrothermograph trace until December 31, 1962. After this time the extremes of the hourly values of relative humidity, calculated from hourly readings of dewpoint temperature and air temperature, were considered the daily maximum and minimum.

The dewpoint temperatures measured by the Dewcel were recorded on a Honeywell self-balancing Wheatstone bridge recorder. Two-minute readings of the dewpoint temperature at each level were recorded to the nearest tenth of a degree Fahrenheit.

The wet-bulb and dewpoint data used in this section were computed from hourly values of relative humidity and 5.5-foot air temperature.



### 1.3.1. Averages, Distributions, and Ranges of Atmospheric Moisture Parameters

Table 133. Average Hourly 5-foot Relative Humidity in Percent. January 1950–December 1964.

During hours of no precipitation the lowest average relative humidities occur during the daylight hours of the warm months and the highest occur about sunrise in July and August. During the winter the daytime relative humidity values are substantially higher than the corresponding summer values.

Table 134. Average Hourly 5-foot Dewpoint Temperature (°F). January 1950–December 1964.

Table 135. Average Hourly 5-foot Wet-Bulb Temperature (°F). January 1950–December 1964.

Wet-bulb temperatures were calculated from the 5.5-foot air temperature and 5-foot relative humidity either measured by the hygrothermograph or derived from the Dewcel. The highest average hourly dewpoint and wet-bulb temperature values occur in July and the lowest in January. In any month the variation in the average hourly dewpoint was only two or three degrees Fahrenheit, but the variation in average hourly wet-bulb temperature ranged from seven degrees in January to nine degrees in April and May. This reflects the conservativeness of dewpoint temperature. Even though the amplitude is relatively small, evidence of a double maximum in dewpoint shows up in the summer months.

Figure 38. Monthly Maximum and Minimum 5-foot Relative Humidity in Percent. January 1950–December 1964.

Figure 39. Average of the Daily Maximum and Minimum 5-foot Relative Humidity in Percent. January 1950–December 1964.

Figure 40. Monthly Mean of 5-foot Relative Humidity in Percent. January 1950–December 1964.

These figures present the extremes and mean of the relative humidity for each month and year. The monthly mean is the average of the hourly values of the relative humidity.

Figure 41. Monthly Average of the Daily Maximum, Mean and Minimum of the Hourly Values of 5-foot Dewpoint Temperatures (°F). January 1950–December 1964.

Figure 42. Monthly Maximum and Minimum of Hourly Values of 5-foot Wet-Bulb Temperature ( $^{\circ}\text{F}$ ). January 1950-December 1964.

The monthly maximum and minimum wet-bulb temperatures plotted in Figure 42 are the highest and lowest of the hourly values of wet-bulb temperature for each month and year. The monthly averages of the daily maximum and minimum dewpoint temperatures in Figure 41 are calculated from the daily maximum and minimum dewpoint temperatures, which are defined here as the highest and lowest of the hourly values. The monthly mean is the average of all hourly values of the dewpoint temperatures for the month.

Table 136. Percentage Frequency Distribution of 2-hour, 11-hour and 23-hour Range of 5-foot Relative Humidity in Percent Beginning with Indicated Hour. Total Period. January 1950-December 1964.

This table presents the percentage frequency distribution of 2-hour, 11-hour and 23-hour range of relative humidity. The 2-hour range distribution indicates that 87 percent of the time the relative humidity does not vary more than 14 percent in any 2-hour interval. The 11-hour and 23-hour range distributions show considerably more variation with the median 11-hour range occurring between 24 and 29 percent and the median 23-hour range occurring in the 40-49 percent category. Note that the size of the relative humidity range intervals doubles after the 35-39 percent interval.

Table 137. Percentile Distribution of Hourly 5-foot Relative Humidity in Percent. January 1950-December 1964.

The 10-, 25-, 50-, 75- and 90-percentile values of relative humidity for each month during the hours 0100-0600, 0700-1200, 1300-1800 and 1900-2400 CST are presented. Annual percentile values are also included. The degree of dampness of the climate is indicated by this table. Fifty percent of the observations during the hours 0100-0600 CST exceed 89 percent and only 25 percent are less than 79 percent. Even during the afternoon, half of the values exceeded 60 percent.

Table 138. Percentile Distribution of Hourly 5-foot Dewpoint Temperature ( $^{\circ}\text{F}$ ). January 1950-December 1964.

Table 139. Percentile Distribution of Hourly 5-foot Wet-Bulb Temperature ( $^{\circ}\text{F}$ ). January 1950-December 1964.

Table 138 shows little difference in dewpoint values from day to night with daytime values being slightly higher. A comparison of Tables 138 and 139 indicates the amplitude of the diurnal variation of the wet-bulb temperature is several times as large as that of the dewpoint.

Table 140. Percentile Distribution of Hourly 5-foot Temperature-Humidity Index ( $^{\circ}\text{F}$ ). January 1950-December 1964.

Most people become uncomfortable when the value of the THI is 70 or greater. Only 10 percent of the readings in July and August during 0100-0600 CST show a temperature-humidity index over 70 but appreciably more observations during the remainder of the day have a THI exceeding this value. Three-fourths of the readings in July and over one-half in June and August show uncomfortable conditions during the hours 1300-1800 CST.

### 1.3.2. Frequency and Persistence of Humidity Conditions

Table 141. Monthly Number of Days with 5-foot Relative Humidity in Percent Greater than 89 Percent. January 1950-December 1964.

Table entries are the number of days per month for each year on which at least one humidity observation exceeded 89 percent. With the exception of the first year the relative humidity exceeded 89 percent on nearly three-quarters of the days in each year, i.e., 274 days. July and August were months in which the greatest number of such dates occurred (84 and 91 percent), and the least number occurred in April and May (66 and 61 percent), respectively.

Table 142. Monthly Number of Hours with 5-foot Relative Humidity in Percent Greater than 89 Percent. January 1950-December 1964.

This table is constructed like Table 141; however, it presents the number of hourly observations of relative humidity above 89 percent. A comparison of Tables 141 and 142 shows several interesting facts. Although over 75 percent of the days had an observation of relative humidity exceeding 89 percent, only 28 percent of the hourly values exceeded this amount. December, January and August were months showing the greatest number of hourly observations with relative humidity greater than 89 percent and May and June the least.

Table 143. Number of Hours the 5-foot Wet-Bulb Temperature ( $^{\circ}\text{F}$ ) Exceeded Specified Values. January 1950-December 1964.

Table entries are the number of times during each year of record that the wet-bulb temperature exceeded the values indicated. The data show appreciable variability from year to year.

Table 144. Monthly Number of Cooling Degree Hours Based on a 5-foot Wet-Bulb Temperature of  $50^{\circ}\text{F}$ . January 1950-December 1964.

Each entry in this table is the total number of degree hours based on the hourly wet-bulb temperature computed for the specified month and year.

A degree hour is defined here as one degree departure toward a higher temperature of the hourly wet-bulb temperature from the base temperature of 50°F. Therefore, the number of degree hours for one hour is the difference between the wet-bulb temperature for that hour and 50°F if the wet-bulb temperature is greater than 50°F and zero if the wet-bulb temperature is less than or equal to 50°F.

Tables 145 through 151. Frequency Distribution of the Number of Consecutive Hourly 5-foot Dewpoint Temperatures (°F) above or below Specified Values. Monthly and Total Period. January 1950–December 1964.

These tables consist of two sections. The table entries in the first section, "Persistence above Specified Dewpoint Temperatures (°F)," are the number of times that the hourly measurements of dewpoint temperature remained above the specified level for the indicated number of consecutive hourly observations. Table entries in the second section, "Persistence below Specified Dewpoint Temperatures (°F)," are the number of times that the hourly measurements of dewpoint temperatures remained below the specified level for the indicated number of consecutive hourly observations. For example, the number of times that the dewpoint temperature persisted below 20°F in January for 10 hours is 2. The row labeled "maximum persistence" at the bottom of each section contains the length of the longest run of dewpoint temperatures above or below the indicated value.

Tables 152 through 158. Frequency Distribution of the Number of Consecutive Hourly 5-foot Wet-Bulb Temperatures (°F) above or below Specified Values. Monthly and Total Period. January 1950–December 1964.

These tables are constructed similarly to Tables 145 through 151 but present wet-bulb temperature data.

Table 133. Average Hourly 5-foot Relative Humidity  
in Percent. January 1950-December 1964

HOUR	MONTH											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	86	85	84	80	80	85	89	91	86	81	82	86
2	86	86	84	81	81	86	90	92	87	82	83	86
3	86	86	85	82	83	87	91	93	88	84	84	87
4	86	87	86	83	84	88	91	93	89	85	85	87
5	87	87	86	84	85	89	92	94	90	86	85	86
6	87	88	87	83	82	85	88	92	90	87	86	88
7	88	88	85	78	75	77	81	86	85	85	86	88
8	87	85	80	72	69	72	73	78	76	78	84	88
9	84	81	73	67	64	67	67	71	68	68	77	84
10	80	76	69	63	61	63	63	66	62	62	71	80
11	76	72	66	60	58	59	60	62	57	58	66	76
12	74	71	64	57	56	57	58	59	54	55	63	73
13	72	69	63	56	55	56	56	57	52	53	62	72
14	72	69	62	55	54	55	56	57	51	52	61	71
15	72	69	63	55	54	56	55	57	52	53	61	72
16	74	70	64	56	55	56	57	58	53	54	64	75
17	78	73	66	57	56	58	59	61	57	60	68	78
18	81	77	70	61	59	61	62	68	65	66	72	81
19	83	80	74	66	64	67	69	76	73	71	75	82
20	84	82	78	70	69	72	76	82	78	74	76	83
21	84	83	80	73	72	76	81	86	81	76	77	84
22	85	84	81	75	75	80	84	88	82	77	79	85
23	85	84	82	77	78	82	86	89	83	79	80	85
24	86	85	83	78	79	83	87	90	85	80	81	86

Table 134. Average Hourly 5-foot\* Dewpoint  
Temperature (°F). January 1950-December 1964

HOUR	MONTH											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	16	19	25	35	45	55	61	60	52	41	29	19
2	15	19	25	35	45	55	60	60	52	41	29	19
3	15	18	24	35	45	55	60	60	52	41	29	19
4	15	18	24	35	44	55	60	60	52	41	29	18
5	15	18	24	35	45	55	60	59	51	41	29	18
6	15	18	24	35	46	57	61	60	52	41	28	18
7	15	18	24	36	46	57	61	61	53	42	29	18
8	15	19	25	36	47	57	62	62	53	43	30	18
9	16	20	25	36	47	57	61	61	53	43	30	19
10	17	20	25	37	48	57	61	61	53	43	30	20
11	17	21	26	37	48	57	61	61	53	43	30	20
12	18	21	26	37	48	57	61	61	52	43	30	21
13	18	21	26	37	48	57	61	60	52	42	30	21
14	18	21	26	37	47	57	61	60	52	42	30	21
15	18	21	26	37	47	57	60	60	52	42	30	21
16	17	21	26	37	47	57	61	60	52	41	29	21
17	17	21	26	36	46	57	60	60	52	41	29	20
18	17	21	26	36	46	56	60	61	52	41	29	20
19	17	21	26	36	45	56	60	61	53	42	29	20
20	17	20	26	36	45	55	61	61	53	42	29	20
21	17	20	26	36	45	56	61	61	53	42	29	20
22	17	20	26	36	45	56	61	61	53	42	29	19
23	16	20	26	36	45	56	61	61	52	42	29	19
24	16	19	25	36	45	56	61	61	52	41	29	19

\*Calculated from 5-foot relative humidity and 5.5-foot temperature.

Table 135. Average Hourly 5-foot\* Wet Bulb Temperature (°F).  
January 1950-December 1964

HOUR	MONTH											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	20	23	29	40	49	58	63	62	55	45	33	23
2	20	23	28	39	49	58	63	62	55	45	33	23
3	20	22	28	39	48	58	62	62	54	45	33	23
4	19	22	27	39	48	57	62	61	54	44	32	22
5	19	22	27	38	48	58	62	61	54	44	32	22
6	18	22	27	39	50	59	64	62	54	44	32	22
7	18	22	28	40	51	61	65	64	56	45	32	21
8	19	23	29	42	53	62	66	65	57	47	33	22
9	20	25	31	43	54	63	67	66	59	49	35	24
10	22	26	32	45	55	64	67	67	60	50	36	25
11	23	27	33	46	56	64	67	67	60	51	37	26
12	24	28	34	46	56	65	68	67	61	52	38	27
13	25	28	35	47	56	65	68	68	61	52	39	27
14	25	28	35	47	57	65	68	68	61	52	39	28
15	25	28	35	47	57	65	68	67	61	52	38	27
16	24	28	34	46	56	65	68	67	60	51	37	26
17	23	27	33	46	55	64	67	67	59	50	36	26
18	23	26	32	44	54	63	67	66	58	48	35	25
19	22	25	31	43	53	62	65	65	57	48	35	25
20	22	25	31	42	51	60	65	64	57	47	35	25
21	22	25	30	42	51	60	64	64	57	47	34	24
22	21	25	30	41	50	59	64	64	56	46	34	24
23	21	24	30	41	50	59	64	63	56	46	33	23
24	21	23	29	40	49	59	63	63	55	46	33	23

\* Calculated from 5-foot relative humidity and 5.5-foot temperature.